

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

Atty. Docket No.  
036140/US - 475387-00020

Serial No.  
10/765,430

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

(Use several sheets if necessary)



Applicant(s)  
Guillermo J. Tearney

Filing Date  
January 26, 2004

Group  
3737

**U.S. PATENT DOCUMENTS**

*Exam. Init.		Document No.							Date	Name	Class	Subclass	Filing Date if Appropriate
/IK/	2002	0	1	2	2	2	4	6	September 5, 2002	Tearney et al. **			
		6	6	8	7	0	1	0	February 2004	Horii et al.			
		4	5	8	5	3	4	9	April 29, 1986	Gross et al.			
		5	8	1	7	1	4	4	October 6, 1998	Gregory			
		5	8	4	3	0	0	0	December 1, 1998	Nishioka et al.			
		6	0	5	3	6	1	3	April 25, 2000	Wei et al.			
		6	0	0	4	3	1	4	December 21,	Wei et al.			
		4	2	9	5	7	3	8	October 20, 1981	Meltz et al. **			
		4	3	0	0	8	1	6	November 17,	Snitzer et al. **			
/IK/		4	7	7	0	4	9	2	September 13, 1988	Levin et al. **			

**FOREIGN PATENT DOCUMENT**

		Document No.							Date	Country	Class	SubClass	Translator Yes No
/IK/		0	2	3	8	0	4	0	May 16, 2002	WIPO**			
/IK/		1	4	2	6	7	9	9	June 9, 2004	European **			
/IK/	1	9	5	4	2	9	5	5	May 22, 1997	Germany **			
/IK/	0	3	0	6	2	8	0	2	July 31, 2003	WIPO**			
/IK/		9	5	3	3	9	7	1	December 14, 1995	WIPO**			

\*\* References cited in International Search Report

**OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)**

International Written Opinion for International Patent application No. PCT/US2005/043951.

Examiner /Iman Kholdebarin/

Date Considered 02/21/2007

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/IK/		International Search Report for International Patent application No. PCT/US2005/043951.
		Erdelyi et.al. "Generation of diffraction-free beams for applications in optical microlithography", J. Vac. Sci. Technol. B 15 (12), Mar/Apr 1997, Pages 287-292.
		International Search Report for International Patent application No. PCT/US2005/023664.
		International Written Opinion for International Patent application No. PCT/US2005/023664.
		Tearney et al., "Spectrally encoded miniature endoscopy" Optical Society of America; Optical Letters Vol. 27, No. 6, March 15, 2002; pages 412-414
		Yelin et al., "Double-clad Fiber for Endoscopy" Optical Society of America; Optical Letters Vol. 29, No. 20, October 16, 2005; pages 2408-2410
		International Search Report for International Patent application No. PCT/US2001/049704.
		International Search Report for International Patent application No. PCT/US2004/039454.
↓		International Written Opinion for International Patent application No. PCT/US2004/039454.
/IK/		PCT International Preliminary Report on Patentability for International Application No. PCT/US2004/038404 dated June 2, 2006

4825-6817-8945\1

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QL0	2004	0	1	5	0	8	2	9	August 5, 2004	Koch et al.			
QL0		5	3	0	5	7	5	9	April 26, 1994	Kaneko et al.***			
QL0		6	2	6	3	2	3	4	July 17, 2001	Engelhardt et al.***			

**FOREIGN PATENT DOCUMENT**

		Document No.							Date	Country	Class	SubClass	Translator Yes No
QL0		9	8	1	4	1	3	2	April 9, 1998	WIPO***			
QL0		9	8	4	8	8	3	8	November 5, 1998	WIPO***			
QL0		4	1	3	5	5	5	0	May 11, 1992	Japan ***			
QL0		4	1	3	5	5	5	1	May 11, 1992	Japan ***			

\*\*\* References cited in Japanese Patent Application No. 2002-538830

**OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)**

QL0 Notice of Reasons for Rejection and English translation for Japanese Patent Application No. 2002-538830

4843-5744-76811

Examiner  
Qh boLi pref cbj00

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/IK/		6	3	8	4	9	1	5	May 7, 2002	Everett et al. ****			
		6	6	1	5	0	7	1	September 2, 2003	Casscells, III et al. ****			
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		6	2	7	2	3	7	6	August 7, 2001	Marcu et al. ****			
		5	8	6	7	2	6	8	February 2, 1999	Gelikonov et al.			
		6	1	7	4	2	9	1	January 16, 2001	McMahon et al.**			
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		5	4	5	4	8	0	7	October 3, 1995	Lennox et al.*****			
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		6	1	3	4	0	3	3	October 17, 2000	Bergano et al.*****			
	2005	0	0	1	8	2	0	1	January 27, 2005	De Boer *****			
/IK/		6	5	5	6	8	5	3	April 29, 2003	Cabib et al. *****			

**FOREIGN PATENT DOCUMENT**

		Document No.							Date	Country	Class	SubClass	Translator Ycs. No

Examiner /Iman Kholdebarin/ Date Considered 02/27/2007

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)</b>	Applicant(s) Guillermo J. Tearney et al.	
	Filing Date January 26, 2004	Group No. 3737

\*\* References cited in International Search Report  
 \*\*\*\* References cited in Office Action dated August 24, 2006 for U.S. Patent Application No. 10/137,749  
 \*\*\*\*\*References cited in Office Action dated November 13, 2006 for U.S. Patent Application No. 10/501,268  
 \*\*\*\*\* References cited in Office Action dated November 20, 2006 for U.S. Patent Application No. 09/709,162

OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)			
/IK/			Copy of Office Action dated August 24, 2006 for U.S. Patent Application No. 10/137,749
			Barry Cense et al., "Spectral-domain polarization-sensitive optical coherence tomography at 850nm", Coherence Domain Optical Methods and Optical Coherence Tomography in Biomedicine IX, 2005, pages 159-162 **
			A. Ymeti et al., "Integration of microfluidics with a four-channel integrated optical Young interferometer immunosensor", Biosensors and Bioelectronics, Elsevier Science Publishers, 2005, pages 1417-1421 **
			PCT International Search Report for Application No. PCT/US2006/018865 filed May 5, 2006
			International Written Opinion for International Patent application No. PCT/US2006/018865 filed May 5, 2006
			John M. Poneros, "Diagnosis of Barrett's esophagus using optical coherence tomography", Gastrointestinal Endoscopy clinics of North America", 14 (2004) pages 573-588 **
			P.F. Escobar et al., "Diagnostic efficacy of optical coherence tomography in the management of preinvasive and invasive cancer of uterine cervix and vulva", Int. Journal of Gynecological Cancer 2004, 14, pages 470-474 **
			Ko T et al., "Ultrahigh resolution in vivo versus ex vivo OCT imaging and tissue preservation", Conference on Lasers and electro-optics, 2001, pages 252-253 **
			Paul M. Ripley et al., "A comparison of Artificial Intelligence techniques for spectral classification in the diagnosis of human pathologies based upon optical biopsy", Journal of Optical Society of America, 2000, pages 217-219 **
↓			Wolfgang Drexler et al., "Ultrahigh-resolution optical coherence tomography", Journal of Biomedical Optics Spie USA, 2004, pages 47-74 **
/IK/			PCT International Search Report for Application No. PCT/US2006/016677 filed April 28, 2006

Examiner /Iman Kholdebarin/ Date Considered 02/21/2007

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/IK/		International Written Opinion for International Patent application No. PCT/US2006/016677 filed April 28, 2006
/IK/		Copy of Office Action dated November 13, 2006 for U.S. Patent Application No. 10/501,268
/IK/		Copy of Office Action dated November 20, 2006 for U.S. Patent Application No. 09/709,162
/IK/		PCT International Search Report and Written Opinion for Application No. PCT/US2004/023585 filed July 23, 2004

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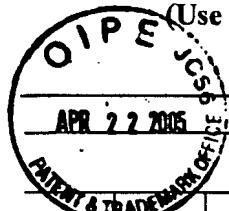
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*Exam. Init.	Document No.								Date	Name	Class	Subclass	Filing Date if Appropriate
/IK/	2	3	3	9	7	5	4		January 25, 1944	P.H. Brace			
	4	6	0	1	0	3	6		July 15, 1986	Faxvog et al			
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	5	5	8	3	3	4	2		December 10, 1996	Koji Ichie			
/IK/	5	5	9	0	6	6	0		January 7, 1997	MacAulay et al			

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/IK/	5	6	0	1	0	8	7	February 11, 1997	Richards-Kortum et al			
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/IK/	6	1	1	7	1	2	8	September 12, 2000	Kenton W. Gregory			

Examiner

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/IK/		6	1	2	0	5	1	6	September 19, 2000	Selmon et al		
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	4	3	0	9	0	5	6	7					Yes	No
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↓	0	2	5	4	0	2	7	18	July 11, 2002	WIPO				

**OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)**

			"High Resolution in Vivo Intra-Arterial Imaging with Optical Coherence Tomography" by Jujimoto et al., in the <u>Official Journal of the British Cardiac Society</u> , Vol. 82, pages 128-133 Heart - 1999,
			"Optical Coherence Tomography" by D. Huang et al., in <u>SCIENCE</u> , Vol. 254, pages 1178-1181, November, 1991
			"High-Speed Phase -and Group Delay Scanning with a Grating Based Phase Control Delay Line" by Tearney, et al., in <u>Optics Letters</u> , Vol. 22, Pages 1811-1813, December, 1997

Examiner

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201		"In Vivo Video Rate Optical Coherence Tomography" by Rollins, et al., in the <u>Optics Express</u> , Vol. 3, pages 219-229, September, 1998
		"High Speed Fiber-Based Polarization-Sensitive Optical Coherence Tomography of in Vivo Human Skin" by Saxon, et al., in the <u>Optical Society of America</u> , Vol. 25, pages 1355-1357, September, 2000
		"3000 Times Grating Compress or with Positive Group Velocity Dispersion" by Oscar Eduardo Martinez, in the <u>IEEE</u> , Vol. QE-23, pages 59-64, January, 1987
		"Image Enhancement in Optical Coherence Tomography Using Deconvolution" by Kulkarni, et al., in the <u>Electronics Letters</u> , Vol. 33, pages 1365-1367, July, 1997
		"Signal Processing for Improving Field Cross-Correlation Function in Optical Coherence Tomography" by Bashkansky, et al., in the <u>Optics &amp; Photonics News</u> , Vol. 9, pages 8137-8138, May, 1998
		"Phase-Domain Processing of Optical Coherence Tomography Images" by Yung, et al., in the <u>Journal of Biomedical Optics</u> , Vol. 4, pages 125-136, January, 1999
		"In Vivo Endoscopic Optical Biopsy with Optical Coherence Tomography" by Tearney, et al., in the <u>SCIENCE</u> , Vol. 276, June, 1997
202		"In Vivo Ultrahigh-Resolution Optical Coherence Tomography" by W. Drexler et al., Opt. Lett. Vol. 24, pp. 1221-3, Sept. 1999

4831-0593-8176\1

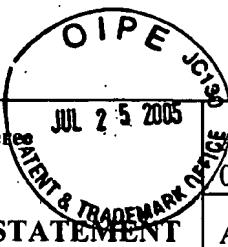
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Atty. Docket No.  
036140/US - 475387-00020Serial No.  
10/765,430
**INFORMATION DISCLOSURE STATEMENT  
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*Exam. Init.		Document No.								Date	Name	Class	Subclass	Filing Date if Appropriate

**FOREIGN PATENT DOCUMENT**

		Document No.								Date	Country	Class	SubClass	Translator Yes No
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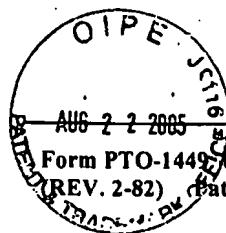
**OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)**

/IK/			"A Portable, Low Coherence Interferometry Based Instrument for Fine Needle Aspiration Biopsy Guidance" Nicusor V. Iftimia et al., Accepted to Review of Scientific Instruments, 2005											

4818-8218-9312\1

Examiner /Iman Kholdebarin/ Date Considered 02/21/2007

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036140/US - 475387-00020Serial No.  
10/765,430INFORMATION DISCLOSURE STATEMENT  
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Guillermo J. TearneyFiling Date  
January 26, 2004Group  
3737

## U.S. PATENT DOCUMENTS

*Exam. Init.		Document No.							Date	Name	Class	Subclass	Filing Date if Appropriate
/IK/		6	6	8	5	8	8	5	February 3, 2004	Nolte et al.			
/IK/		6	6	8	7	0	0	7	February 3, 2004	Meigs			
/IK/	2003	0	0	2	6	7	3	5	February 6, 2003	Nolte et al.			
/IK/	2004	0	1	6	6	5	9	3	August 26, 2004	Nolte et al.			

## FOREIGN PATENT DOCUMENT

		Document No.							Date	Country	Class	SubClass	Translator Yes No

## OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)

/IK/		Abbas, G.L., V.W.S. Chan et al., "Local-Oscillator Excess-Noise Suppression for Homodyne and Heterodyne-Detection", <u>Optics Letters</u> , Vol. 8, pages 419-421, August 1983 issue
/IK/		Agrawal, G.P., "Population Pulsations and Nondegenerate 4-Wave Mixing in Semiconductor-Lasers and Amplifiers", <u>Journal Of The Optical Society Of America B-Optical Physics</u> , Vol. 5, pages 147-159, January 1998
/IK/		Andretzky, P. et al., "Optical Coherence Tomography by Spectral Radar: Improvement of Signal-to-Noise Ratio", <u>The International Society for Optical Engineering, USA</u> , Vol. 3915, 2000
/IK/		Ballif, J. et al., "Rapid and Scalable Scans at 21 m/s in optical Low-Coherence Reflectometry", <u>Optics Letters</u> , Vol. 22, pages 757-759, June 1997
/IK/		Barfuss H. et al., "Modified Optical Frequency-Domain Reflectometry with High Spatial-Resolution for Components of Integrated Optic Systems", <u>Journal Of Lightwave Technology</u> , Vol. 7, pages 3-10, January 1989
/IK/		Beaud, P. et al., "Optical Reflectometry with Micrometer Resolution for the Investigation of Integrated Optical-Devices", <u>Leee Journal of Quantum Electronics</u> , Vol. 25, pages 755-759, April 1989

Examiner /Iman Kholdebarin/ Date Considered 02/21/2007

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Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office		Atty. Docket No. 036140/US - 475387-00020	Serial No. 10/765,430
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		Filing Date January 26, 2004	Group 3737

/IK/		Bouma, Brett et al., "Power-Efficient Nonreciprocal Interferometer and Linear-Scanning Fiber-Optic Catheter for Optical Coherence Tomography", <u>Optics Letters</u> , Vol. 24, pages 531-533, April 1999
		Brinkmeyer, E. et al., "Efficient Algorithm for Non-Equidistant Interpolation of Sampled Data", <u>Electronics Letters</u> , Vol. 28, page 693, March 1992
		Brinkmeyer, E. et al., "High-Resolution OCDR in Dispersive Wave-Guides", <u>Electronics Letters</u> , Vol. 26, pages 413-414, March 1990
		Chinn, S.R. et al., "Optical Coherence Tomography Using a Frequency-Tunable Optical Source", <u>Optics Letters</u> , Vol. 22, pages 340-342, March 1997
		Danielson, B.L. et al., "Absolute Optical Ranging Using Low Coherence Interferometry", <u>Applied Optics</u> , Vol. 30, page 2975, July 1991
		Dorrer, C. et al., "Spectral Resolution and Sampling Issues in Fourier-Transform Spectral Interferometry", <u>Journal of the Optical Society of America B-Optical Physics</u> , Vol. 17, pages 1795-1802, October 2000
		Dudley, J.M. et al., "Cross-Correlation Frequency Resolved Optical Gating Analysis of Broadband Continuum Generation in Photonic Crystal Fiber: Simulations and Experiments", <u>Optics Express</u> , Vol. 10, page 1215, October 2002
		Eickhoff, W. et al., "Optical Frequency-Domain Reflectometry in Single-Mode Fiber", <u>Applied Physics Letters</u> , Vol. 39, pages 693-695, 1981
		Fercher, Adolf "Optical Coherence Tomography", <u>Journal of Biomedical Optics</u> , Vol. 1, pages 157-173, April 1996
		Ferreira, L.A. et al., "Polarization-Insensitive Fiberoptic White-Light Interferometry", <u>Optics Communications</u> , Vol. 114, pages 386-392, February 1995
		Fujii, Yohji, "High-Isolation Polarization-Independent Optical Circulator", <u>Journal of Lightwave Technology</u> , Vol. 9, pages 1239-1243, October 1991
/IK/		Glance, B., "Polarization Independent Coherent Optical Receiver", <u>Journal of Lightwave Technology</u> , Vol. LT-5, page 274, February 1987

Examiner Iman Kholdebarin Date Considered 02/21/2007

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Applicant(s)  
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Filing Date  
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Group  
3737

/IK/		Glombitza, U., "Coherent Frequency-Domain Reflectometry for Characterization of Single-Mode Integrated-Optical Wave-Guides", <u>Journal of Lightwave Technology</u> , Vol. 11, pages 1377-1384, August 1993
		Golubovic, B. et al., "Optical Frequency-Domain Reflectometry Using Rapid Wavelength Tuning of a Cr4+:Forsterite Laser", <u>Optics Letters</u> , Vol. 11, pages 1704-1706, November 1997
		Haberland, U. H. P. et al., "Chirp Optical Coherence Tomography of Layered Scattering Media", <u>Journal of Biomedical Optics</u> , Vol. 3, pages 259-266, July 1998
		Hammer, Daniel X. et al., "Spectrally Resolved White-Light Interferometry for Measurement of Ocular Dispersion", <u>Journal of the Optical Society of America A-Optics Image Science and Vision</u> , Vol. 16, pages 2092-2102, September 1999
		Harvey, K. C. et al., "External-Cavity Diode-Laser Using a Grazing-Incidence Diffraction Grating", <u>Optics Letters</u> , Vol. 16, pages 910-912, June 1991
		Hausler, Gerd et al., "'Coherence Radar' and 'Spectral Radar' New Tools for Dermatological Diagnosis", <u>Journal of Biomedical Optics</u> , Vol., 3, pages 21-31, January 1998
		Hee, Michael R. et al., "Polarization-Sensitive Low-Coherence Reflectometer for Birefringence Characterization and Ranging", <u>Journal of the Optical Society of America B (Optical Physics)</u> , Vol. 9, page 903-908, June 1992
		Hotate Kazuo et al., "Optical Coherence Domain Reflectometry by Synthesis of Coherence Function", <u>Journal of Lightwave Technology</u> , Vol. 11, pages 1701-1710, October 1993
		Inoue, Kyo et al., "Nearly Degenerate 4-Wave-Mixing in a Traveling-Wave Semiconductor-Laser Amplifier", <u>Applied Physics Letters</u> , Vol. 51, pages 1051-1053, 1987
		Ivanov, A. P. et al., "New Method for High-Range Resolution Measurements of Light Scattering in Optically Dense Inhomogeneous Media", <u>Optics Letters</u> , Vol. 1, pages 226-228, December 1977
		Ivanov, A. P. et al., "Interferometric Study of the Spatial Structure of a Light-Scattering Medium", <u>Journal of Applied Spectroscopy</u> , Vol. 28, pages 518-525, 1978
/IK/		Kazovsky, L. G. et al., "Heterodyne Detection Through Rain, Snow, and Turbid Media: Effective Receiver Size at Optical Through Millimeter Wavelengths", <u>Applied Optics</u> , Vol. 22, pages 706-710, March 1983

Examiner

/Iman Kholdebarin/

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(Use several sheets if necessary)Applicant(s)  
Guillermo J. TearneyFiling Date  
January 26, 2004Group  
3737

/IK/		Kersey, A. D. et al., "Adaptive Polarization Diversity Receiver Configuration for Coherent Optical Fiber Communications", <u>Electronics Letters</u> , Vol. 25, pages 275-277, February 1989
		Kohlhaas, Andreas et al., "High-Resolution OCDR for Testing Integrated-Optical Waveguides: Dispersion-Corrupted Experimental Data Corrected by a Numerical Algorithm", <u>Journal of Lightwave Technology</u> , Vol. 9, pages 1493-1502, November 1991
		Larkin, Kieran G., "Efficient Nonlinear Algorithm for Envelope Detection in White Light Interferometry", <u>Journal of the Optical Society of America A-Optics Image Science and Vision</u> , Vol. 13, pages 832-843, April 1996
		Leitgeb, R. et al., "Spectral measurement of Absorption by Spectroscopic Frequency-Domain Optical Coherence Tomography", <u>Optics Letters</u> , Vol. 25, pages 820-822, June 2000
		Lexer, F. et al., "Wavelength-Tuning Interferometry of Intraocular Distances", <u>Applied Optics</u> , Vol. 36, pages 6548-6553, September 1997
		Mitsui, Takahisa, "Dynamic Range of Optical Reflectometry with Spectral Interferometry", <u>Japanese Journal of Applied Physics Part 1-Regular Papers Short Notes &amp; Review Papers</u> , Vol. 38, pages 6133-6137, 1999
		Naganuma, Kazunori et al., "Group-Delay Measurement Using the Fourier-Transform of an Interferometric Cross-Correlation Generated by White Light", <u>Optics Letters</u> , Vol. 15, pages 393-395, April 1990
		Okoshi, Takanori, "Polarization-State Control Schemes for Heterodyne or Homodyne Optical Fiber Communications", <u>Journal of Lightwave Technology</u> , Vol. LT-3, pages 1232-1237, December 1995
		Passy, R. et al., "Experimental and Theoretical Investigations of Coherent OFDR with Semiconductor-Laser Sources", <u>Journal of Lightwave Technology</u> , Vol. 12, pages 1622-1630, September 1994
		Podoleanu, Adrian G., "Unbalanced Versus Balanced Operation in an Optical Coherence Tomography System", <u>Applied Optics</u> , Vol. 39, pages 173-182, January 2000
		Price, J. H. V. et al., "Tunable, Femtosecond Pulse Source Operating in the Range 1.06-1.33 $\mu$ m Based on an Yb <sup>3+</sup> -doped Holey Fiber Amplifier", <u>Journal of the Optical Society of America B-Optical Physics</u> , Vol. 19, pages 1286-1294, June 2002
/IK/		Schmitt, J. M. et al., "Measurement of Optical-Properties of Biological Tissues By Low-Coherence Reflectometry" <u>Applied Optics</u> , Vol. 32, pages 6032-6042, October 1993

Examiner

/Iman Kholdebarin/

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\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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(Use several sheets if necessary)**

Applicant(s)  
Guillermo J. Tearney

Filing Date  
January 26, 2004

Group  
3737

/IK/		Silberberg, Y. et al., "Passive-Mode Locking of a Semiconductor Diode-Laser", <u>Optics Letters</u> , Vol. 9, pages 507-509, November 1984
		Smith, L. Montgomery et al., "Absolute Displacement Measurements Using Modulation of the Spectrum of White-Light in a Michelson Interferometer", <u>Applied Optics</u> , Vol. 28, pages 3339-3342, August 1989
		Sonnenschein, C. M. et al., "Signal-To-Noise Relationships for Coaxial Systems that Heterodyne Backscatter from Atmosphere", <u>Applied Optics</u> , Vol. 10, pages 1600-1604, July 1971
		Sorin, W. V. et al., "Measurement of Rayleigh Backscattering at 1.55 mu m with 32 mu m Spatial Resolution", <u>IEEE Photonics Technology Letters</u> , Vol. 4, pages 374-376, April 1992
		Sorin, W. V. et al., "A Simple Intensity Noise-Reduction Technique for Optical Low-Coherence Reflectometry", <u>IEEE Photonics Technology Letters</u> , Vol. 4, pages 1404-1406, December 1992
		Swanson, E. A. et al., "High-Speed Optical Coherence Domair Reflectometry", <u>Optics Letters</u> , Vol. 17, pages 151-153, January 1992
		Takada, K. et al., "High-Resolution OFDR with Incorporated Fiberoptic Frequency Encoder", <u>IEEE Photonics Technology Letters</u> , Vol. 4, pages 1069-1072, September 1992
		"Narrow-Band light Source with Acoustooptic Tunable Filter for Optical Low-Coherence Reflectometry", by Takada, Kazumasa et al., <u>IEEE Photonics Technology Letters</u> , Vol. 8, pages 658-660, May, 1996
		Takada, Kazumasa et al., "New Measurement System for Fault Location in Optical Wave-Guide Devices Based on an Interometric-Technique", <u>Applied Optics</u> , Vol. 26, pages 1603-1606, May 1987
		Tateda, Mitsuhiro et al., "Interferometric Method for Chromatic Dispersion Measurement in a Single-Mode Optical Fiber", <u>IEEE Journal Of Quantum Electronics</u> , Vol. 17, pages 404-407, March 1981
		Toide, M. et al., "Two-Dimensional Coherent Detection Imaging in Multiple Scattering Media Based the Directional Resolution Capability of the Optical Heterodyne Method", <u>Applied Physics B (Photophysics and Laser Chemistry)</u> , Vol. B52, pages 391-394, 1991
✓/IK/		Trutna, W. R. et al., "Continuously Tuned External-Cavity Semiconductor-Laser", <u>Journal of Lightwave Technology</u> , Vol. 11, pages 1279-1286, August 1993

Examiner

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Date Considered

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Applicant(s)  
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Filing Date  
January 26, 2004

Group  
3737

/IK/		Uttam, Deepak et al., "Precision Time Domain Reflectometry in Optical Fiber Systems Using a Frequency Modulated Continuous Wave Ranging Technique", <u>Journal of Lightwave Technology</u> , Vol. 3, pages 971-977, October 1985
		Von Der Weid, J. P. et al., "On the Characterization of Optical Fiber Network Components with Optical Frequency Domain Reflectometry", <u>Journal of Lightwave Technology</u> , Vol. 15, pages 1131-1141, July 1997
		Wysocki, P.F. et al., "Broad-Spectrum, Wavelength-Swept, Erbium-Doped Fiber Laser at 1.55-Mu-M", <u>Optics Letters</u> , Vol. 15, pages 879-881, August 1990
		Youngquist, Robert C. et al., "Optical Coherence-Domain Reflectometry – A New Optical Evaluation Technique", <u>Optics Letters</u> , Vol. 12, pages 158-160, March 1987
		Yun, S. H. et al., "Wavelength-Swept Fiber Laser with Frequency Shifted Feedback and Resonantly Swept Intra-Cavity Acoustooptic Tunable Filter", <u>IEEE Journal of Selected Topics in Quantum Electronics</u> , Vol. 3, pages 1087-1096, August 1997
		Yun, S. H. et al., "Interrogation of Fiber Grating Sensor Arrays with a Wavelength-Swept Fiber Laser", <u>Optics Letters</u> , Vol. 23, pages 843-845, June 1998
		Yung, K. M., "Phase-Domain Processing of Optical Coherence Tomography Images", <u>Journal of Biomedical Optics</u> , Vol. 4, pages 125-136, January 1999
		Zhou, Xiao-Qun et al., "Extended-Range FMCW Reflectometry Using an optical Loop with a Frequency Shifter", <u>IEEE Photonics Technology Letters</u> , Vol. 8, pages 248-250, February 1996
↓		Zorabedian, Paul et al., "Tuning Fidelity of Acoustooptically Controlled External Cavity Semiconductor-Lasers", <u>Journal of Lightwave Technology</u> , Vol. 13, pages 62-66, January 1995
/IK/		Victor S. Y. Lin et al., "A Porous Silicon-Based Optical Interferometric Biosensor", <u>Science</u> , Vol. 278, pages 840-843, October 31, 1997

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Examiner	Date Considered
/Iman Kholdebarin/	02/21/2007

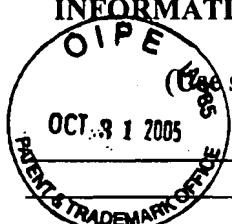
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**U.S. PATENT DOCUMENTS**

*Exam. Init.		Document No.							Date	Name	Class	Subclass	Filing Date if Appropriate
QL0		6	8	0	6	9	6	3	October 19, 2004	Wälti et al.			
		5	7	1	0	6	3	0	January 20, 1998	Essenpreis et al.			
		5	8	0	7	2	6	1	September 15, 1998	Benaron et al.			
		5	9	5	1	4	8	2	September 14, 1999	Winston et al.			
		5	9	8	3	1	2	5	November 9, 1999	Alfano et al.			
		6	1	3	4	0	1	0	October 17, 2000	Zavislán			
		6	1	9	3	6	7	6	February 27, 2001	Winston et al.			
		6	3	0	8	0	9	2	October 23, 2001	Hoyns			
		6	3	9	3	3	1	2	May 21, 2002	Hoyns			
		6	3	9	4	9	6	4	May 28, 2002	Sievert, Jr. et al.			
↓	QL0	6	4	4	5	9	4	4	September 3, 2002	Ostrovsky			
	QL0	6	4	6	3	3	1	3	October 8, 2002	Winston et al.			

**FOREIGN PATENT DOCUMENT**

		Document No.							Date	Country	Class	SubClass	Translator Yes No
QL0		0	1	3	8	8	2	0	May 31, 2001	WIPO*			

\* U.S. equivalent is listed.

**OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)**

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**FOREIGN PATENT DOCUMENT**

		Document No.	Date	Country	Class	SubClass	Translator Yes No

**OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)**

/IK/		De Boer, Johannes F. et al., "Review of Polarization Sensitive Optical Coherence Tomography and Stokes Vector Determination," <u>Journal of Biomedical Optics</u> , Vol. 7, No. 3, July 2002, pages 359-371
		Jiao, Shuliang et al., "Depth-Resolved Two-Dimensional Stokes Vectors of Backscattered Light and Mueller Matrices of Biological Tissue Measured with Optical Coherence Tomography," <u>Applied Optics</u> , Vol. 39, No. 34, December 1, 2000, pages 6318-6324
		Park, B. Hyle et al., "In Vivo Burn Depth Determination by High-Speed Fiber-Based Polarization Sensitive Optical Coherence Tomography," <u>Journal of Biomedical Optics</u> , Vol. 6 No. 4, October 2001, pages 474-479
		Roth, Jonathan E. et al., "Simplified Method for Polarization-Sensitive Optical Coherence Tomography," <u>Optics Letters</u> , Vol. 26, No. 14, July 15, 2001, pages 1069-1071
		Hitzenberger, Christopher K. et al., "Measurement and Imaging of Birefringence and Optic Axis Orientation by Phase Resolved Polarization Sensitive Optical Coherence Tomography," <u>Optics Express</u> , Vol. 9, No. 13, December 17, 2001, pages 780-790
		Wang, Xueding et al., "Propagation of Polarized Light in Birefringent Turbid Media: Time-Resolved Simulations," Optical Imaging Laboratory, Biomedical Engineering Program, Texas A&M University
/IK/		Wong, Brian J.F. et al., "Optical Coherence Tomography of the Rat Cochlea," <u>Journal of Biomedical Optics</u> , Vol. 5, No. 4, October 2000, pages 367-370

Examiner

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3737

/IK/		<p>Yao, Gang et al., "Propagation of Polarized Light in Turbid Media: Simulated Animation Sequences," <u>Optics Express</u>, Vol. 7, No. 5, August 28, 2000, pages 198-203</p>
		<p>Wang, Xiao-Jun et al., "Characterization of Dentin and Enamel by Use of Optical Coherence Tomography," <u>Applied Optics</u>, Vol. 38, No. 10, April 1, 1999, pages 2092-2096</p>
		<p>De Boer, Johannes F. et al., "Determination of the Depth-Resolved Stokes Parameters of Light Backscattered from Turbid Media by use of Polarization-Sensitive Optical Coherence Tomography," <u>Optics Letters</u>, Vol. 24, No. 5, March 1, 1999, pages 300-302</p>
		<p>Ducros, Mathieu G. et al., "Polarization Sensitive Optical Coherence Tomography of the Rabbit Eye," <u>IEEE Journal of Selected Topics in Quantum Electronics</u>, Vol. 5, No. 4, July/August 1999, pages 1159-1167</p>
		<p>Groner, Warren et al., "Orthogonal Polarization Spectral Imaging: A New Method for Study of the Microcirculation," <u>Nature Medicine Inc.</u>, Vol. 5 No. 10, October 1999, pages 1209-1213</p>
		<p>De Boer, Johannes F. et al., "Polarization Effects in Optical Coherence Tomography of Various Viological Tissues," <u>IEEE Journal of Selected Topics in Quantum Electronics</u>, Vol. 5, No. 4, July/August 1999, pages 1200-1204</p>
		<p>Yao, Gang et al., "Two-Dimensional Depth-Resolved Mueller Matrix Characterization of Biological Tissue by Optical Coherence Tomography," <u>Optics Letters</u>, April 15, 1999, Vol. 24, No. 8, pages 537-539</p>
		<p>Lu, Shih-Yau et al., "Homogeneous and Inhomogeneous Jones Matrices," <u>J. Opt. Soc. Am. A.</u>, Vol. 11, No. 2, February 1994, pages 766-773</p>
		<p>Bickel, S. William et al., "Stokes Vectors, Mueller Matrices, and Polarized Scattered Light," <u>Am. J. Phys.</u>, Vol. 53, No. 5, May 1985 pages 468-478</p>
		<p>Bréhonnet, F. Le Roy et al., "Optical Media and Target Characterization by Mueller Matrix Decomposition," <u>J. Phys. D: Appl. Phys.</u> 29, 1996, pages 34-38</p>
↓		<p>Cameron, Brent D. et al., "Measurement and Calculation of the Two-Dimensional Backscattering Mueller Matrix of a Turbid Medium," <u>Optics Letters</u>, Vol. 23, No. 7, April 1, 1998, pages 485-487</p>
/IK/		<p>De Boer, Johannes F. et al., "Two-Dimensional Birefringence Imaging in Biological Tissue by Polarization-Sensitive Optical Coherence Tomography," <u>Optics Letters</u>, Vol. 22, No. 12, June 15, 1997, pages 934-936</p>

Examiner

/Iman Kholdebarin/

Date Considered

02/21/2007

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

Atty. Docket No.  
036140/US - 475387-00020

Serial No.  
10/765,430

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT  
(Use several sheets if necessary)**

Applicant(s)  
Guillermo J. Tearney et al.

Filing Date  
January 26, 2004

Group  
3737

/IK/		De Boer, Johannes F. et al., "Imaging Thermally Damaged Tissue by Polarization Sensitive Optical Coherence Tomography," <u>Optics Express</u> , Vol. 3, No. 6, September 14, 1998, pages 212-218
		Everett, M.J. et al., "Birefringence Characterization of Biological Tissue by Use of Optical Coherence Tomography," <u>Optics Letters</u> , Vol. 23, No. 3, February 1, 1998, pages 228-230
		Hee, Michael R. et al., "Polarization-Sensitive Low-Coherence Reflectometer for Birefringence Characterization and Ranging," <u>J. Opt. Soc. Am. B.</u> , Vol. 9, No. 6, June 1992, pages 903-908
		Barakat, Richard, "Statistics of the Stokes Parameters," <u>J. Opt. Soc. Am. B.</u> , Vol. 4, No. 7, July 1987, pages 1256-1263
		Schmitt, J.M. et al., "Cross-Polarized Backscatter in Optical Coherence Tomography of Biological Tissue," <u>Optics Letters</u> , Vol. 23, No. 13, July 1, 1998, pages 1060-1062
		Schoenenberger, Klaus et al., "Mapping of Birefringence and Thermal Damage in Tissue by use of Polarization-Sensitive Optical Coherence Tomography," <u>Applied Optics</u> , Vol. 37, No. 25, September 1, 1998, pages 6026-6036
		Pierce, Mark C. et al., "Simultaneous Intensity, Birefringence, and Flow Measurements with High-Speed Fiber-Based Optical Coherence Tomography," <u>Optics Letters</u> , Vol. 27, No. 17, September 1, 2002, pages 1534-1536
		De Boer, Johannes F. et al., "Review of Polarization Sensitive Optical Coherence Tomography and Stokes Vector Determination," <u>Journal of Biomedical Optics</u> , July 2002, Vol. 7, No. 3, pages 359-371
		Fried, Daniel et al., "Imaging Caries Lesions and Lesion Progression with Polarization Sensitive Optical Coherence Tomography," <u>Journal of Biomedical Optics</u> , Vol. 7, No. 4, October 2002, pages 618-627
		Jiao, Shuliang et al., "Two-Dimensional Depth-Resolved Mueller Matrix of Biological Tissue Measured with Double-Beam Polarization-Sensitive Optical Coherence Tomography," <u>Optics Letters</u> , Vol. 27, No. 2, January 15, 2002, pages 101-103
↓		Jiao, Shuliang et al., "Jones-Matrix Imaging of Biological Tissues with Quadruple-Channel Optical Coherence Tomography," <u>Journal of Biomedical Optics</u> , Vol. 7, No. 3, July 2002, pages 350-358
/IK/		Kuranov, R.V. et al., "Complementary Use of Cross-Polarization and Standard OCT for Differential Diagnosis of Pathological Tissues," <u>Optics Express</u> , Vol. 10, No. 15, July 29, 2002, pages 707-713

Examiner

/Iman Kholdebarin/

Date Considered

02/21/2007

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office		Atty. Docket No. 036140/US - 475387-00020	Serial No. 10/765,430
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)</b>		Applicant(s) Guillermo J. Tearney et al.	
		Filing Date January 26, 2004	Group 3737

/IK/		Cense, Barry et al., "In Vivo Depth-Resolved Birefringence Measurements of the Human Retinal Nerve Fiber Layer by Polarization-Sensitive Optical Coherence Tomography," <u>Optics Letters</u> , Vol. 27, No. 18, September 15, 2002, pages 1610-1612
		Ren, Hongwu et al., "Phase-Resolved Functional Optical Coherence Tomography: Simultaneous Imaging of <u>In Situ</u> Tissue Structure, Blood Flow Velocity, Standard Deviation, Birefringence, and Stokes Vectors in Human Skin," <u>Optics Letters</u> , Vol. 27, No. 19, October 1, 2002, pages 1702-1704
		Tripathi, Renu et al., "Spectral Shaping for Non-Gaussian Source Spectra in Optical Coherence Tomography," <u>Optics Letters</u> , Vol. 27, No. 6, March 15, 2002, pages 406-408
		Yasuno, Y. et al., "Birefringence Imaging of Human Skin by Polarization-Sensitive Spectral Interferometric Optical Coherence Tomography," <u>Optics Letters</u> , Vol. 27, No. 20, October 15, 2002 pages 1803-1805
		White, Brian R. et al., "In Vivo Dynamic Human Retinal Blood Flow Imaging Using Ultra-High-Speed Spectral Domain Optical Doppler Tomography," <u>Optics Express</u> , Vol. 11, No. 25, December 15, 2003, pages 3490-3497
		De Boer, Johannes F. et al., "Improved Signal-to-Noise Ratio in Spectral-Domain Compared with Time-Domain Optical Coherence Tomography," <u>Optics Letters</u> , Vol. 28, No. 21, November 1, 2003, pages 2067-2069
		Jiao, Shuliang et al., "Optical-Fiber-Based Mueller Optical Coherence Tomography," <u>Optics Letters</u> , Vol. 28, No. 14, July 15, 2003, pages 1206-1208
		Jiao, Shuliang et al., "Contrast Mechanisms in Polarization-Sensitive Mueller-Matrix Optical Coherence Tomography and Application in Burn Imaging," <u>Applied Optics</u> , Vol. 42, No. 25, September 1, 2003, pages 5191-5197
		Moreau, Julien et al., "Full-Field Birefringence Imaging by Thermal-Light Polarization-Sensitive Optical Coherence Tomography. I. Theory," <u>Applied Optics</u> , Vol. 42, No. 19, July 1, 2003, pages 3800-3810
		Moreau, Julien et al., "Full-Field Birefringence Imaging by Thermal-Light Polarization-Sensitive Optical Coherence Tomography. II. Instrument and Results," <u>Applied Optics</u> , Vol. 42, No. 19, July 1, 2003, pages 3811-3818
/IK/		Morgan, Stephen P. et al., "Surface-Reflection Elimination in Polarization Imaging of Superficial Tissue," <u>Optics Letters</u> , Vol. 28, No. 2, January 15, 2003, pages 114-116

Examiner	/Iman Kholdebarin/	Date Considered	02/21/2007
----------	--------------------	-----------------	------------

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark OfficeAtty. Docket No.  
036140/US - 475387-00020Serial No.  
10/765,430INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT  
(Use several sheets if necessary)Applicant(s)  
Guillermo J. Tearney et al.Filing Date  
January 26, 2004Group  
3737

/IK/		Oh, Jung-Taek et al., "Polarization-Sensitive Optical Coherence Tomography for Photoelasticity Testing of Glass/Epoxy Composites," <u>Optics Express</u> , Vol. 11, No. 14, July 14, 2003, pages 1669-1676
		Park, B. Hyle et al., "Real-Time Multi-Functional Optical Coherence Tomography," <u>Optics Express</u> , Vol. 11, No. 7, April 7, 2003, pages 782-793
		Shribak, Michael et al., "Techniques for Fast and Sensitive Measurements of Two-Dimensional Birefringence Distributions," <u>Applied Optics</u> , Vol. 42, No. 16, June 1, 2003, pages 3009-3017
		Somervell, A.R.D. et al., "Direct Measurement of Fringe Amplitude and Phase Using a Heterodyne Interferometer Operating in Broadband Light," <u>Elsevier, Optics Communications</u> , October 2003
		Stifter, D. et al., "Polarisation-Sensitive Optical Coherence Tomography for Material Characterisation and Strain-Field Mapping," <u>Applied Physics A</u> 76, Materials Science & Processing, January 2003, pages 947-951
		Davé, Digant P. et al., "Polarization-Maintaining Fiber-Based Optical Low-Coherence Reflectometer for Characterization and Ranging of Birefringence," <u>Optics Letters</u> , Vol. 28, No. 19, October 1, 2003, pages 1775-1777
		Yang, Ying et al., "Observations of Birefringence in Tissues from Optic-Fibre-Based Optical Coherence Tomography," <u>Measurement Science and Technology</u> , November 2002, pages 41-46
		Yun, S.H. et al., "High-Speed Optical Frequency-Domain Imaging," <u>Optics Express</u> , Vol. 11, No. 22, November 3, 2003, pages 2953-2963
		Yun, S.H. et al., "High-Speed Spectral-Domain Optical Coherence Tomography at 1.3 $\mu$ m Wavelength," <u>Optics Express</u> , Vol. 11, No. 26, December 29, 2003, pages 3598-3604
		Zhang, Jun et al., "Determination of Birefringence and Absolute Optic Axis Orientation Using Polarization-Sensitive Optical Coherence Tomography with PM Fibers," <u>Optics Express</u> , Vol. 11, No. 24, December 1, 2003, pages 3262-3270
		Pircher, Michael et al., "Three Dimensional Polarization Sensitive OCT of Human Skin In Vivo," 2004, <u>Optical Society of America</u>
/IK/		Götzinger, Erich et al., "Measurement and Imaging of Birefringent Properties of the Human Cornea with Phase-Resolved, Polarization-Sensitive Optical Coherence Tomography," <u>Journal of Biomedical Optics</u> , Vol. 9, No. 1, January/February 2004, pages 94-102

Examiner

/Iman Kholdebarin/

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02/21/2007

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Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

Atty. Docket No.  
036140/US - 475387-00020

Serial No.  
10/765,430

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT  
(Use several sheets if necessary)**

Applicant(s)  
Guillermo J. Tearney et al.

Filing Date  
January 26, 2004

Group  
3737

/IK/		Guo, Shuguang et al., "Depth-Resolved Birefringence and Differential Optical Axis Orientation Measurements with Finer-based Polarization-Sensitive Optical Coherence Tomography," <u>Optics Letters</u> , Vol. 29, No. 17, September 1, 2004, pages 2025-2027
		Huang, Xiang-Run et al., "Variation of Peripapillary Retinal Nerve Fiber Layer Birefringence in Normal Human Subjects," <u>Investigative Ophthalmology &amp; Visual Science</u> , Vol. 45, No. 9, September 2004, pages 3073-3080
		Matcher, Stephen J. et al., "The Collagen Structure of Bovine Intervertebral Disc Studied Using Polarization-Sensitive Optical Coherence Tomography," <u>Physics in Medicine and Biology</u> , 2004, pages 1295-1306
		Nassif, Nader et al., "In Vivo Human Retinal Imaging by Ultrahigh-Speed Spectral Domain Optical Coherence Tomography," <u>Optics Letters</u> , Vol. 29, No. 5, March 1, 2004, pages 480-482
		Nassif, N.A. et al., "In Vivo High-Resolution Video-Rate Spectral-Domain Optical Coherence Tomography of the Human Retina and Optic Nerve," <u>Optics Express</u> , Vol. 12, No. 3, February 9, 2004, pages 367-376
		Park, B. Hyle et al., "Comment on "Optical-Fiber-Based Mueller Optical Coherence Tomography," <u>Optics Letters</u> , Vol. 29, No. 24, December 15, 2004, pages 2873-2874
		Park, B. Hyle et al., "Jones Matrix Analysis for a Polarization-Sensitive Optical Coherence Tomography System Using Fiber-Optic Components," <u>Optics Letters</u> , Vol. 29, No. 21, November 1, 2004, pages 2512-2514
		Pierce, Mark C. et al., "Collagen Denaturation can be Quantified in Burned Human Skin Using Polarization-Sensitive Optical Coherence Tomography," <u>Elsevier, Burns</u> , 2004, pages 511-517
		Pierce, Mark C. et al., "Advances in Optical Coherence Tomography Imaging for Dermatology," <u>The Society for Investigative Dermatology, Inc.</u> 2004, pages 458-463
		Pierce, Mark C. et al., "Birefringence Measurements in Human Skin Using Polarization-Sensitive Optical Coherence Tomography," <u>Journal of Biomedical Optics</u> , Vol. 9, No. 2, March/April 2004, pages 287-291
/IK/		Cense, Barry et al., "In Vivo Birefringence and Thickness Measurements of the Human Retinal Nerve Fiber Layer Using Polarization-Sensitive Optical Coherence Tomography," <u>Journal of Biomedical Optics</u> , Vol. 9, No. 1, January/February 2004, pages 121-125

Examiner

/Iman Kholdebarin/

Date Considered

02/21/2007

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office</b>	<b>Atty. Docket No. 036140/US - 475387-00020</b>	<b>Serial No. 10/765,430</b>
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	<b>Filing Date</b>	<b>Group</b>
	<b>January 26, 2004</b>	<b>3737</b>

/IK/		<p>Pircher, Michael et al., "Imaging Of Polarization Properties of Human Retina <u>in Vivo</u> with Phase Resolved Transversal PS-OCT," <u>Optics Express</u>, Vol. 12, No. 24, November 29, 2004 pages 5940-5951</p>
		<p>Pircher, Michael et al., "Transversal Phase Resolved Polarization Sensitive Optical Coherence Tomography," <u>Physics in Medicine &amp; Biology</u>, 2004, pages 1257-1263</p>
		<p>Srinivas, Shyam M. et al., "Determination of Burn Depth by Polarization-Sensitive Optical Coherence Tomography," <u>Journal of Biomedical Optics</u>, Vol. 9, No. 1, January/February 2004, pages 207-212</p>
		<p>Strasswimmer, John et al., "Polarization-Sensitive Optical Coherence Tomography of Invasive Basal Cell Carcinoma," <u>Journal of Biomedical Optics</u>, Vol. 9, No. 2, March/April 2004, pages 292-298</p>
		<p>Todorović, Miloš et al., "Determination of Local Polarization Properties of Biological Samples in the Presence of Diattenuation by use of Mueller Optical Coherence Tomography," <u>Optics Letters</u>, Vol. 29, No. 20, October 15, 2004, pages 2402-2404</p>
↓ /IK/		<p>Yasuno, Yoshiaki et al., "Polarization-Sensitive Complex Fourier Domain Optical Coherence Tomography for Jones Matrix Imaging of Biological Samples," <u>Applied Physics Letters</u>, Vol. 85, No. 15, October 11, 2004, pages 3023-3025</p>

4815-8164-5312\1

Examiner /Iman Kholdebarin/ Date Considered 02/21/2007

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

Atty. Docket No.  
036140/US - 475387-00020

Serial No.  
10/765,430

**INFORMATION DISCLOSURE STATEMENT  
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(Use several sheets if necessary)

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Guillermo J. Tearney

Filing Date  
January 26, 2004

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3737

### U.S. PATENT DOCUMENTS

*Exam. Init.		Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
/IK/		5 9 2 0 3 9 0	July 6, 1999	Farahi et al.			

### FOREIGN PATENT DOCUMENT

		Document No.	Date	Country	Class	SubClass	Translator Yes No

### OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)

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4838-9087-2320\1

Examiner /Iman Kholdebarin/ Date Considered 02/21/2007

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

Atty. Docket No.  
036140/US - 475387-00020

Serial No.  
10/765,430

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT  
(Use several sheets if necessary)**

Applicant(s)  
Guillermo J. Tearney et al.

Filing Date  
January 26, 2004

Group No.  
3737

**U.S. PATENT DOCUMENTS**

*Exam. Init.		Document No.							Date	Name	Class	Subclass	Filing Date if Appropriate
/IK/		6	3	8	4	9	1	5	May 7, 2002	Everett et al. ****			
		6	6	1	5	0	7	1	September 2, 2003	Casscells, III et al. ****			
	2003	0	1	7	1	6	9	1	September 11, 2003	Casscells, III et al. ****			
		6	2	7	2	3	7	6	August 7, 2001	Marcu et al. ****			
		5	8	6	7	2	6	8	February 2, 1999	Gelikonov et al.			
		6	1	7	4	2	9	1	January 16, 2001	McMahon et al.**			
		5	8	9	2	5	8	3	April 6, 1999	Li*****			
		6	0	9	1	4	9	6	July 18, 2000	Hill*****			
		5	8	0	1	8	2	6	September 1, 1998	Williams*****			
		5	4	5	4	8	0	7	October 3, 1995	Lennox et al.*****			
		5	8	4	3	0	5	2	December 1, 1998	Benja- Athon*****			
		6	1	3	4	0	3	3	October 17, 2000	Bergano et al.*****			
	2005	0	0	1	8	2	0	1	January 27, 2005	De Boer *****			
/IK/		6	5	5	6	8	5	3	April 29, 2003	Cabib et al. *****			

**FOREIGN PATENT DOCUMENT**

		Document No.							Date	Country	Class	SubClass	Translator Ycs No

Examiner /Iman Kholdebarin/ Date Considered 02/27/2007

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office	Atty. Docket No. 036140/US - 475387-00020	Serial No. 10/765,430
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	Filing Date January 26, 2004	Group No. 3737

\*\* References cited in International Search Report  
 \*\*\*\* References cited in Office Action dated August 24, 2006 for U.S. Patent Application No. 10/137,749  
 \*\*\*\*\*References cited in Office Action dated November 13, 2006 for U.S. Patent Application No. 10/501,268  
 \*\*\*\*\* References cited in Office Action dated November 20, 2006 for U.S. Patent Application No. 09/709,162

OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)		
/IK/		Copy of Office Action dated August 24, 2006 for U.S. Patent Application No. 10/137,749
		Barry Cense et al., "Spectral-domain polarization-sensitive optical coherence tomography at 850nm", Coherence Domain Optical Methods and Optical Coherence Tomography in Biomedicine IX, 2005, pages 159-162 **
		A. Ymeti et al., "Integration of microfluidics with a four-channel integrated optical Young interferometer immunosensor", Biosensors and Bioelectronics, Elsevier Science Publishers, 2005, pages 1417-1421 **
		PCT International Search Report for Application No. PCT/US2006/018865 filed May 5, 2006
		International Written Opinion for International Patent application No. PCT/US2006/018865 filed May 5, 2006
		John M. Poneros, "Diagnosis of Barrett's esophagus using optical coherence tomography", Gastrointestinal Endoscopy clinics of North America", 14 (2004) pages 573-588 **
		P.F. Escobar et al., "Diagnostic efficacy of optical coherence tomography in the management of preinvasive and invasive cancer of uterine cervix and vulva", Int. Journal of Gynecological Cancer 2004, 14, pages 470-474 **
		Ko T et al., "Ultrahigh resolution in vivo versus ex vivo OCT imaging and tissue preservation", Conference on Lasers and electro-optics, 2001, pages 252-253 **
		Paul M. Ripley et al., "A comparison of Artificial Intelligence techniques for spectral classification in the diagnosis of human pathologies based upon optical biopsy", Journal of Optical Society of America, 2000, pages 217-219 **
↓		Wolfgang Drexler et al., "Ultrahigh-resolution optical coherence tomography", Journal of Biomedical Optics Spie USA, 2004, pages 47-74 **
/IK/		PCT International Search Report for Application No. PCT/US2006/016677 filed April 28, 2006

Examiner /Iman Kholdebarin/ Date Considered 02/21/2007

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office		Atty. Docket No. 036140/US - 475387-00020	Serial No. 10/765,430
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		Filing Date January 26, 2004	Group No. 3737

/IK/		International Written Opinion for International Patent application No. PCT/US2006/016677 filed April 28, 2006
/IK/		Copy of Office Action dated November 13, 2006 for U.S. Patent Application No. 10/501,268
/IK/		Copy of Office Action dated November 20, 2006 for U.S. Patent Application No. 09/709,162
/IK/		PCT International Search Report and Written Opinion for Application No. PCT/US2004/023585 filed July 23, 2004

4829-8395-7761\1

Examiner	/Iman Kholdebarin/	Date Considered	02/21/2007
----------	--------------------	-----------------	------------

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

Atty. Docket No.  
036140/US - 475387-00020

Serial No.  
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Filing Date  
January 26, 2004

Group  
3737

**U.S. PATENT DOCUMENTS**

*Exam. Init.		Document No.							Date	Name	Cl as s	Subclass	Filing Date if Appropriate
/IK/		6	5	5	8	3	2	4	May 6, 2003	Von Behren et al. **			
/IK/		5	9	4	9	9	2	9	September 7,	Hamm **			
/IK/		6	3	5	3	6	9	3	March 5, 2002	Kano et al. **			
/IK/		5	0	3	9	1	9	3	August 13, 1991	Snow et al. **			

**FOREIGN PATENT DOCUMENT**

		Document No.							Date	Country	Class	SubClass	Translator Yes No
/IK/		0	2	3	6	0	1	5	May 10, 2002	WIPO **			

\*\* References cited in International Search Report

**OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)**

/IK/		D. Fu et al., "Non-invasive quantitative reconstruction of tissue elasticity using an iterative forward approach", Phys. Med. Biol. 2000 (45): 1495-1509. **
/IK/		S.B. Adams Jr. et al., "The use of polarization sensitive optical coherence tomography and elastography to assess connective tissue", Optical Soc. of American Washington 2002, Page 3 **
/IK/		International Search Report for International Patent application No. PCT/US2005/039740.
/IK/		International Written Opinion for International Patent application No. PCT/US2005/039740.
/IK/		International Search Report for International Patent application No. PCT/US2005/030294.

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Examiner

/Iman Kholdebarin/

Date Considered

10/29/2007

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Form PTO-1449 U.S. Department of Commerce  
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/IK/		6	5	5	8	3	2	4	May 6, 2003	Von Behren et al. **			
/IK/		5	9	4	9	9	2	9	September 7,	Hamm **			
/IK/		6	3	5	3	6	9	3	March 5, 2002	Kano et al. **			
/IK/		5	0	3	9	1	9	3	August 13, 1991	Snow et al. **			

**FOREIGN PATENT DOCUMENT**

		Document No.							Date	Country	Class	SubClass	Translator Yes No
/IK/		0	2	3	6	0	1	5	May 10, 2002	WIPO **			

\*\* References cited in International Search Report

**OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)**

/IK/		D. Fu et al., "Non-invasive quantitative reconstruction of tissue elasticity using an iterative forward approach", Phys. Med. Biol. 2000 (45): 1495-1509. **
/IK/		S.B. Adams Jr. et al., "The use of polarization sensitive optical coherence tomography and elastography to assess connective tissue", Optical Soc. of American Washington 2002, Page 3 **
/IK/		International Search Report for International Patent application No. PCT/US2005/039740.
/IK/		International Written Opinion for International Patent application No. PCT/US2005/039740.
/IK/		International Search Report for International Patent application No. PCT/US2005/030294.

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Examiner /Iman Kholdebarin/ Date Considered 10/29/2007

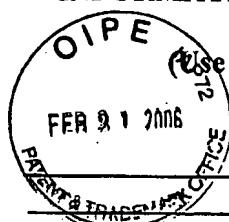
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036140/US - 475387-00020

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10/765,430

INFORMATION DISCLOSURE STATEMENT  
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Guillermo J. Tearney

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January 26, 2004

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U.S. PATENT DOCUMENTS

*Exam. Init.		Document No.							Date	Name	Class	Subclass	Filing Date if Appropriate
/IK/		5	4	9	1	5	2	4	February 13, 1996	Hellmuth et al.			
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		6	9	8	0	2	9	9	December 27, 2005	de Boer			
		6	1	6	6	3	7	3	December 26, 2000	Mao			
		6	4	6	9	8	4	6	October 22, 2002	Ebizuka et al.			
		5	6	2	3	3	3	6	April 22, 1997	Raab et al.			
		5	2	6	2	6	4	4	November 16, 1993	Maguire			
		5	1	2	7	7	3	0	July 7, 1992	Brelje et al.			
		5	2	4	8	8	7	6	September 28, 1993	Kerstens et al.			
		5	3	0	4	8	1	0	April 19, 1994	Amos			
		5	4	5	0	2	0	3	September 12, 1995	Penkethman			
		5	4	5	9	3	2	5	October 17, 1995	Hueton et al.			
		5	5	2	6	3	3	8	June 11, 1996	Hasman et al.			
		5	6	0	0	4	8	6	February 4, 1997	Gal et al.			
		5	6	9	8	3	9	7	December 16, 1997	Zarling et al.			
		5	7	8	5	6	5	1	July 28, 1998	Kuhn et al.			
		5	8	8	7	0	0	9	March 23, 1999	Mandella et al.			
		5	0	4	5	9	3	6	September 3, 1991	Lobb et al.			
		5	2	9	1	8	8	5	March 8, 1994	Taniji et al.			
		5	2	9	3	8	7	3	March 15, 1994	Fang			
		5	0	6	5	3	3	1	November 1991	Vachon et al.			
	2001	0	0	4	7	1	3	7	November 2001	Moreno et al.			
	2002	0	0	1	6	5	3	3	February 7, 2002	Marchitto et al.			
		6	8	1	6	7	4	3	November 9, 2004	Moreno et al.			
	/IK/	6	3	2	4	4	1	9	November 27, 2001	Guzelsu et al.			

Examiner /Iman Kholdebarin/ Date Considered 10/29/2007

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3737

/IK/	6	5	6	4	0	8	9	May 13, 2003	Izatt et al.			
/IK/	6	1	9	8	9	5	6	March 6, 2001	Dunne, Shane			
/IK/	5	7	3	5	2	7	6	April 7, 1998	Lemelson, Jerome			

**FOREIGN PATENT DOCUMENT**

/IK/	Document No.							Date	Country	Class	SubClass	Translator		
	0	4	1	0	5	5	9	8				Yes	No	
									December 9, 2004	WIPO				

**OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)**

/IK/		Marc Nikles et al., "Brillouin gain spectrum characterization in single-mode optical fibers", <u>Journal of Lightwave Technology</u> 1997, 15 (10): 1842-1851.
/IK/		Tsuyoshi Sonehara et al., "Forced Brillouin Spectroscopy Using Frequency-Tunable Continuous-Wave Lasers", <u>Physical Review Letters</u> 1995, 75 (23): 4234-4237.
/IK/		Hajime Tanaka et al., "New Method of Superheterodyne Light Beating Spectroscopy for Brillouin-Scattering Using Frequency-Tunable Lasers", <u>Physical Review Letters</u> 1995, 74 (9): 1609-1612.
/IK/		Webb RH et al. "Confocal Scanning Laser Ophthalmoscope", <u>Applied Optics</u> 1987, 26 (8): 1492-1499.
/IK/		Andreas Zumbusch et al. "Three-dimensional vibrational imaging by coherent anti-Stokes Raman scattering", <u>Physical Review Letters</u> 1999, 82 (20): 4142-4145.
/IK/		Katrin Kneipp et al., "Single molecule detection using surface-enhanced Raman scattering (SERS)", <u>Physical Review Letters</u> 1997, 78 (9): 1667-1670.
/IK/		K.J. Koski et al., "Brillouin imaging" <u>Applied Physics Letters</u> 87, 2005.
/IK/		Boas et al., "Diffusing temporal light correlation for burn diagnosis", <u>SPIE</u> , 1999, 2979:468-477.

Examiner      /Iman Kholdebarin/      Date Considered      10/29/2007

\*      Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTQ-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office		Atty. Docket No. 036140/US - 475387-00020	Serial No. 10/765,430
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use several sheets if necessary)		Applicant(s) Guillermo J. Tearney	
		Filing Date January 26, 2004	Group 3737

/IK/		David J. Briers, "Speckle fluctuations and biomedical optics: implications and applications", <u>Optical Engineering</u> , 1993, 32(2):277-283.
		Clark et al., "Tracking Speckle Patterns with Optical Correlation", <u>SPIE</u> , 1992, 1772:77-87.
		Facchini et al., "An endoscopic system for DSPI", <u>Optik</u> , 1993, 95(1):27-30.
		Hrabovsky, M., "Theory of speckle displacement and decorrelation: application in mechanics", <u>SPIE</u> , 1998, 3479:345-354.
		Sean J. Kirkpatrick et al., "Micromechanical behavior of cortical bone as inferred from laser speckle data", <u>Journal of Biomedical Materials Research</u> , 1998, 39(3):373-379.
		Sean J. Kirkpatrick et al., "Laser speckle microstrain measurements in vascular tissue", <u>SPIE</u> , 1999, 3598:121-129.
		Loree et al., "Mechanical Properties of Model Atherosclerotic Lesion Lipid Pools", <u>Arteriosclerosis and Thrombosis</u> , 1994, 14(2):230-234.
		Podbielska, H. "Interferometric Methods and Biomedical Research", <u>SPIE</u> , 1999, 2732:134-141.
		Richards-Kortum et al., "Spectral diagnosis of atherosclerosis using an optical fiber laser catheter", <u>American Heart Journal</u> , 1989, 118(2):381-391.
		Ruth, B. "blood flow determination by the laser speckle method", <u>Int J Microcirc: Clin Exp</u> , 1990, 9:21-45.
		Shapo et al., "Intravascular strain imaging: Experiments on an Inhomogeneous Phantom", <u>IEEE Ultrasonics Symposium</u> 1996, 2:1177-1180.
		Shapo et al., "Ultrasonic displacement and strain imaging of coronary arteries with a catheter array", <u>IEEE Ultrasonics Symposium</u> 1995, 2:1511-1514.
↓ /IK/		Thompson et al., "Imaging in scattering media by use of laser speckle", <u>Opt. Soc. Am. A.</u> , 1997, 14(9):2269-2277.

Examiner	/Iman Kholdebarin/	Date Considered	10/29/2007
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\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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(Use several sheets if necessary)**

Applicant(s)  
Guillermo J. Tearney

Filing Date  
January 26, 2004

Group  
3737

/IK/		Thompson et al., "Diffusive media characterization with laser speckle", <u>Applied Optics</u> , 1997, 36(16):3726-3734.
		Tuchin, Valery V., "Coherent Optical Techniques for the Analysis of Tissue Structure and Dynamics," <u>Journal of Biomedical Optics</u> , 1999, 4(1):106-124.
		M. Wussling et al., "Laser diffraction and speckling studies in skeletal and heart muscle", <u>Biomed. Biochim. Acta</u> , 1986, 45(1/2):S 23- S 27.
		T. Yoshimura et al., "Statistical properties of dynamic speckles", <u>J. Opt. Soc. Am A</u> , 1986, 3(7):1032-1054
		Zimnyakov et al., "Spatial speckle correlometry in applications to tissue structure monitoring", <u>Applied Optics</u> 1997, 36(22): 5594-5607.
		Zimnyakov et al., "A study of statistical properties of partially developed speckle fields as applied to the diagnosis of structural changes in human skin", <u>Optics and Spectroscopy</u> , 1994, 76(5): 747-753.
		Zimnyakov et al., "Speckle patterns polarization analysis as an approach to turbid tissue structure monitoring", <u>SPIE</u> 1999, 2981:172-180.
↓		Ramasamy Manoharan et al., "Biochemical analysis and mapping of atherosclerotic human artery using FT-IR microspectroscopy", <u>Atherosclerosis</u> , May 1993, 181-1930.
/IK/		N.V. Salunke et al., "Biomechanics of Atherosclerotic Plaque" <u>Critical Reviews™ in Biomedical Engineering</u> 1997, 25(3):243-285.

4827-3403-67361

Examiner /Iman Kholdebarin/ Date Considered 10/29/2007

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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**INFORMATION DISCLOSURE STATEMENT  
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**U.S. PATENT DOCUMENTS**

*Exam. Init.		Document No.							Date	Name	Class	Subclass	Filing Date if Appropriate
/IK/		4	9	2	8	0	0	5	May 22, 1990	Lefèvre et al.			
		5	2	0	2	7	4	5	April 13, 1993	Sorin et al.			
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		5	9	2	0	3	7	3	July 6, 1999	Bille			
		5	9	9	1	6	9	7	November 23, 1999	Nelson et al.			
		6	2	0	8	4	1	5	March 27, 2001	De Boer et al.			
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/IK/	2002	0	1	9	8	4	5	7	December 26, 2002	Tearney et al.			

**FOREIGN PATENT DOCUMENT**

			Document No.	Date	Country	Class	SubClass	Translator Yes No

**OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)**

/IK/		Acioli, L. H., M. Ulman, et al. (1991). "Femtosecond Temporal Encoding in Barium-Titanate." <u>Optics Letters</u> 16(24): 1984-1986.
/IK/		Aigouy, L., A. Lahrech, et al. (1999). "Polarization effects in apertureless scanning near-field optical microscopy: an experimental study." <u>Optics Letters</u> 24(4): 187-189.

Examiner /Iman Kholdebarin/ Date Considered 10/29/2007

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	Applicant(s) Guillermo J. Tearney	
	Filing Date January 26, 2004	Group 3737

/IK/		Akiba, M., K. P. Chan, et al. (2003). "Full-field optical coherence tomography by two-dimensional heterodyne detection with a pair of CCD cameras." <u>Optics Letters</u> 28(10): 816-818.
		Akkin, T., D. P. Dave, et al. (2004). "Detection of neural activity using phase-sensitive optical low-coherence reflectometry." <u>Optics Express</u> 12(11): 2377-2386.
		Akkin, T., D. P. Dave, et al. (2003). "Surface analysis using phase sensitive optical low coherence reflectometry." <u>Lasers in Surgery and Medicine</u> : 4-4.
		Akkin, T., D. P. Dave, et al. (2003). "Imaging tissue response to electrical and photothermal stimulation with nanometer sensitivity." <u>Lasers in Surgery and Medicine</u> 33(4): 219-225.
		Akkin, T., T. E. Milner, et al. (2002). "Phase-sensitive measurement of birefringence change as an indication of neural functionality and diseases." <u>Lasers in Surgery and Medicine</u> : 6-6.
		Andretzky, P., Lindner, M.W., Herrmann, J.M., Schultz, A., Konzog, M., Kiesewetter, F., Haeusler, G. (1999). "Optical coherence tomography by 'spectral radar': Dynamic range estimation and in vivo measurements of skin." <u>Proceedings of SPIE - The International Society for Optical Engineering</u> 3567: Pages 78-87.
		Antcliff, R. J., T. J. ffytche, et al. (2000). "Optical coherence tomography of melanocytoma." <u>American Journal of Ophthalmology</u> 130(6): 845-7.
		Antcliff, R. J., M. R. Stanford, et al. (2000). "Comparison between optical coherence tomography and fundus fluorescein angiography for the detection of cystoid macular edema in patients with uveitis." <u>Ophthalmology</u> 107(3): 593-9.
		Anvari, B., T. E. Milner, et al. (1995). "Selective Cooling of Biological Tissues - Application for Thermally Mediated Therapeutic Procedures." <u>Physics in Medicine and Biology</u> 40(2): 241-252.
		Anvari, B., B. S. Tanenbaum, et al. (1995). "A Theoretical-Study of the Thermal Response of Skin to Cryogen Spray Cooling and Pulsed-Laser Irradiation - Implications for Treatment of Port-Wine Stain Birthmarks." <u>Physics in Medicine and Biology</u> 40(9): 1451-1465
/IK/		Arend, O., M. Ruffer, et al. (2000). "Macular circulation in patients with diabetes mellitus with and without arterial hypertension." <u>British Journal of Ophthalmology</u> 84(12): 1392-1396

Examiner	/Iman Kholdebarin/	Date Considered
----------	--------------------	-----------------

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office		Atty. Docket No. 036140/US - 475387-00020	Serial No. 10/765,430
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/IK/		Arimoto, H. and Y. Ohtsuka (1997). "Measurements of the complex degree of spectral coherence by use of a wave-front-folded interferometer." <u>Optics Letters</u> 22(13): 958-960
		Azzolini, C., F. Patelli, et al. (2001). "Correlation between optical coherence tomography data and biomicroscopic interpretation of idiopathic macular hole." <u>American Journal of Ophthalmology</u> 132(3): 348-55
		Baba, T., K. Ohno-Matsui, et al. (2002). "Optical coherence tomography of choroidal neovascularization in high myopia." <u>Acta Ophthalmologica Scandinavica</u> 80(1): 82-7.
		Bail, M. A. H., Gerd; Herrmann, Juergen M.; Lindner, Michael W.; Ringler, R. (1996). "Optical coherence tomography with the "spectral radar": fast optical analysis in volume scatterers by short-coherence interferometry." <u>Proc. SPIE</u> , 2925: p. 298-303.
		Baney, D. M. and W. V. Sorin (1993). "Extended-Range Optical Low-Coherence Reflectometry Using a Recirculating Delay Technique." <u>Ieee Photonics Technology Letters</u> 5(9): 1109-1112.
		Baney, D. M., B. Szafraniec, et al. (2002). "Coherent optical spectrum analyzer." <u>Ieee Photonics Technology Letters</u> 14(3): 355-357.
		Barakat, R. (1981). "Bilinear Constraints between Elements of the 4by4 Mueller-Jones Transfer-Matrix of Polarization Theory." <u>Optics Communications</u> 38(3): 159-161.
		Barakat, R. (1993). "Analytic Proofs of the Arago-Fresnel Laws for the Interference of Polarized-Light." <u>Journal of the Optical Society of America a-Optics Image Science and Vision</u> 10(1): 180-185.
		Barbastathis, G. and D. J. Brady (1999). "Multidimensional tomographic imaging using volume holography." <u>Proceedings of the Ieee</u> 87(12): 2098-2120
		Bardal, S., A. Kamal, et al. (1992). "Photoinduced Birefringence in Optical Fibers - a Comparative-Study of Low-Birefringence and High-Birefringence Fibers." <u>Optics Letters</u> 17(6): 411-413.
		Barsky, S. H., S. Rosen, et al. (1980). "Nature and Evolution of Port Wine Stains - Computer-Assisted Study." <u>Journal of Investigative Dermatology</u> 74(3): 154-157.
V	/IK/	Barton, J. K., J. A. Izatt, et al. (1999). "Three-dimensional reconstruction of blood vessels from in vivo color Doppler optical coherence tomography images." <u>Dermatology</u> 198(4): 355-361.

Examiner /Iman Kholdebarin/ Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Serial No.  
10/765,430

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(Use several sheets if necessary)

Applicant(s)  
Guillermo J. Tearney

Filing Date  
January 26, 2004

Group  
3737

/IK/		Barton, J. K., A. Rollins, et al. (2001). "Photothermal coagulation of blood vessels: a comparison of high-speed optical coherence tomography and numerical modelling." <u>Physics in Medicine and Biology</u> 46.
		Barton, J. K., A. J. Welch, et al. (1998). "Investigating pulsed dye laser-blood vessel interaction with color Doppler optical coherence tomography." <u>Optics Express</u> 3.
		Bashkansky, M., M. D. Duncan, et al. (1997). "Subsurface defect detection in ceramics by high-speed high-resolution optical coherent tomography." <u>Optics Letters</u> 22 (1): 61-63.
		Bashkansky, M. and J. Reintjes (2000). "Statistics and reduction of speckle in optical coherence tomography." <u>Optics Letters</u> 25(8): 545-547.
		Baumgartner, A., S. Dichtl, et al. (2000). "Polarization-sensitive optical coherence tomography of dental structures." <u>Caries Research</u> 34(1): 59-69.
		Baumgartner, A., C. K. Hitzenberger, et al. (2000). "Resolution-improved dual-beam and standard optical coherence tomography: a comparison." <u>Graefes Archive for Clinical and Experimental Ophthalmology</u> 238(5): 385-392.
		Baumgartner, A., C. K. Hitzenberger, et al. (1998). "Signal and resolution enhancements in dual beam optical coherence tomography of the human eye." <u>Journal of Biomedical Optics</u> 3(1): 45-54.
		Beaurepaire, E., P. Gleyzes, et al. (1998). <u>Optical coherence microscopy for the in-depth study of biological structures: System based on a parallel detection scheme</u> , Proceedings of SPIE - The International Society for Optical Engineering.
		Beaurepaire, E., L. Moreaux, et al. (1999). "Combined scanning optical coherence and two-photon-excited fluorescence microscopy." <u>Optics Letters</u> 24(14): 969-971.
		Bechara, F. G., T. Gambichler, et al. (2004). "Histomorphologic correlation with routine histology and optical coherence tomography." <u>Skin Research and Technology</u> 10 (3): 169-173.
		Bechmann, M., M. J. Thiel, et al. (2000). "Central corneal thickness determined with optical coherence tomography in various types of glaucoma. [see comments]." <u>British Journal of Ophthalmology</u> 84(11): 1233-7.
↓		Bek, T. and M. Kandi (2000). "Quantitative anomalouscopy and optical coherence tomography scanning in central serous chorioretinopathy." <u>Acta Ophthalmologica Scandinavica</u> 78(6): 632-7.
/IK/		Benoit, A. M., K. Naoun, et al. (2001). "Linear dichroism of the retinal nerve fiber layer expressed with Mueller matrices." <u>Applied Optics</u> 40(4): 565-569

Examiner

/Iman Kholdebarin/

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	Applicant(s) Guillermo J. Tearney	
	Filing Date January 26, 2004	Group 3737

/IK/	Bicout, D., C. Brosseau, et al. (1994). "Depolarization of Multiply Scattered Waves by Spherical Diffusers - Influence of the Size Parameter." <u>Physical Review E</u> 49(2): 1767-1770.
	Blanchot, L., M. Lebec, et al. (1997). <u>Low-coherence in depth microscopy for biological tissues imaging: Design of a real time control system</u> . Proceedings of SPIE - The International Society for Optical Engineering.
	Blumenthal, E. Z. and R. N. Weinreb (2001). "Assessment of the retinal nerve fiber layer in clinical trials of glaucoma neuroprotection. [Review] [36 refs]." <u>Survey of Ophthalmology</u> 45(Suppl 3): S305-12; discussion S332-4.
	Blumenthal, E. Z., J. M. Williams, et al. (2000). "Reproducibility of nerve fiber layer thickness measurements by use of optical coherence tomography." <u>Ophthalmology</u> 107(12): 2278-82.
	Boppart, S. A., B. E. Bouma, et al. (1996). "Imaging developing neural morphology using optical coherence tomography." <u>Journal of Neuroscience Methods</u> 70.
	Boppart, S. A., B. E. Bouma, et al. (1997). "Forward-imaging instruments for optical coherence tomography." <u>Optics Letters</u> 22.
	Boppart, S. A., B. E. Bouma, et al. (1998). "Intraoperative assessment of microsurgery with three-dimensional optical coherence tomography." <u>Radiology</u> 208: 81-86.
	Boppart, S. A., J. Herrmann, et al. (1999). "High-resolution optical coherence tomography-guided laser ablation of surgical tissue." <u>Journal of Surgical Research</u> 82(2): 275-84.
	Bouma, B. E. and J. G. Fujimoto (1996). "Compact Kerr-lens mode-locked resonators." <u>Optics Letters</u> 21.
	Bouma, B. E., L. E. Nelson, et al. (1998). "Optical coherence tomographic imaging of human tissue at 1.55 $\mu$ m and 1.81 $\mu$ m using Er and Tm-doped fiber sources." <u>Journal of Biomedical Optics</u> 3.
	Bouma, B. E., M. Ramaswamy-Paye, et al. (1997). "Compact resonator designs for mode-locked solid-state lasers." <u>Applied Physics B (Lasers and Optics)</u> B65.
↓ /IK/	Bouma, B. E. and G. J. Tearney (2002). "Clinical imaging with optical coherence tomography." <u>Academic Radiology</u> 9(8): 942-953.
	Bouma, B. E., G. J. Tearney, et al. (1996). "Self-phase-modulated Kerr-lens mode-locked Cr:forsterite laser source for optical coherence tomography." <u>Optics Letters</u> 21(22): 1839.

Examiner	Date Considered
/Iman Kholdebarin/	

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	Filing Date January 26, 2004	Group 3737

/IK/		Bouma, B. E., G. J. Tearney, et al. (2000). "High-resolution imaging of the human esophagus and stomach in vivo using optical coherence tomography." <u>Gastrointestinal Endoscopy</u> 51(4): 467-474.
		Bouma, B. E., G. J. Tearney, et al. (2003). "Evaluation of intracoronary stenting by intravascular optical coherence tomography." <u>Heart</u> 89(3): 317-320.
		Bourquin, S., V. Monterosso, et al. (2000). "Video-rate optical low-coherence reflectometry based on a linear smart detector array." <u>Optics Letters</u> 25(2): 102-104.
		Bourquin, S., P. Seitz, et al. (2001). "Optical coherence topography based on a two-dimensional smart detector array." <u>Optics Letters</u> 26(8): 512-514.
		Bouzid, A., M. A. G. Abushagur, et al. (1995). "Fiber-optic four-detector polarimeter." <u>Optics Communications</u> 118(3-4): 329-334.
		Bowd, C., R. N. Weinreb, et al. (2000). "The retinal nerve fiber layer thickness in ocular hypertensive, normal, and glaucomatous eyes with optical coherence tomography." <u>Archives of Ophthalmology</u> 118(1): 22-6.
		Bowd, C., L. M. Zangwill, et al. (2001). "Detecting early glaucoma by assessment of retinal nerve fiber layer thickness and visual function." <u>Investigative Ophthalmology &amp; Visual Science</u> 42(9): 1993-2003.
		Bowd, C., L. M. Zangwill, et al. (2002). "Imaging of the optic disc and retinal nerve fiber layer: the effects of age, optic disc area, refractive error, and gender." <u>Journal of the Optical Society of America, A, Optics, Image Science, &amp; Vision</u> 19(1): 197-207.
		Brand, S., J. M. Poneros, et al. (2000). "Optical coherence tomography in the gastrointestinal tract." <u>Endoscopy</u> 32(10): 796-803.
		Brezinski, M. E. and J. G. Fujimoto (1999). "Optical coherence tomography: high-resolution imaging in nontransparent tissue." <u>IEEE Journal of Selected Topics in Quantum Electronics</u> 5(4): 1185-1192.
		Brezinski, M. E., G. J. Tearney, et al. (1996). "Imaging of coronary artery microstructure (in vitro) with optical coherence tomography." <u>American Journal of Cardiology</u> 77 (1): 92-93.
↓		Brezinski, M. E., G. J. Tearney, et al. (1996). "Optical coherence tomography for optical biopsy - Properties and demonstration of vascular pathology." <u>Circulation</u> 93(6): 1206-1213.
/IK/		Brezinski, M. E., G. J. Tearney, et al. (1997). "Assessing atherosclerotic plaque morphology: Comparison of optical coherence tomography and high frequency intravascular ultrasound." <u>Heart</u> 77(5): 397-403.

Examiner	/Iman Kholdebarin/	Date Considered
----------	--------------------	-----------------

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT  
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Applicant(s)  
Guillermo J. Tearney

Filing Date  
January 26, 2004

Group  
3737

/IK/		Brink, H. B. K. and G. J. Vanblokland (1988). "Birefringence of the Human Foveal Area Assessed Invivo with Mueller-Matrix Ellipsometry." <u>Journal of the Optical Society of America a-Optics Image Science and Vision</u> 5(1): 49-57.
		Brosseau, C. and D. Bicout (1994). "Entropy Production in Multiple-Scattering of Light by a Spatially Random Medium." <u>Physical Review E</u> 50(6): 4997-5005.
		Burgoyne, C. F., D. E. Mercante, et al. (2002). "Change detection in regional and volumetric disc parameters using longitudinal confocal scanning laser tomography." <u>Ophthalmology</u> 109(3): 455-66.
		Candido, R. and T. J. Allen (2002). "Haemodynamics in microvascular complications in type 1 diabetes." <u>Diabetes-Metabolism Research and Reviews</u> 18(4): 286-304.
		Cense, B., T. C. Chen, et al. (2004). "Thickness and birefringence of healthy retinal nerve fiber layer tissue measured with polarization-sensitive optical coherence tomography." <u>Investigative Ophthalmology &amp; Visual Science</u> 45(8): 2606-2612.
		Cense, B., N. Nassif, et al. (2004). "Ultrahigh-Resolution High-Speed Retinal Imaging Using Spectral-Domain Optical Coherence Tomography." <u>Optics Express</u> 12(11): 2435-2447.
		Chance, B., J. S. Leigh, et al. (1988). "Comparison of Time-Resolved and Time-Unresolved Measurements of Deoxyhemoglobin in Brain." <u>Proceedings of the National Academy of Sciences of the United States of America</u> 85(14): 4971-4975.
		Chang, E. P., D. A. Keedy, et al. (1974). "Ultrastructures of Rabbit Corneal Stroma - Mapping of Optical and Morphological Anisotropies." <u>Biochimica Et Biophysica Acta</u> 343(3): 615-626.
		Chartier, T., A. Hideur, et al. (2001). "Measurement of the elliptical birefringence of single-mode optical fibers." <u>Applied Optics</u> 40(30): 5343-5353.
↓		Chauhan, B. C., J. W. Blanchard, et al. (2000). "Technique for Detecting Serial Topographic Changes in the Optic Disc and Peripapillary Retina Using Scanning Laser Tomograph." <u>Invest Ophthalmol Vis Sci</u> 41: 775-782.
/IK/		Chen, Z. P., T. E. Milner, et al. (1997). "Optical Doppler tomographic imaging of fluid flow velocity in highly scattering media." <u>Optics Letters</u> 22(1): 64-66.

Examiner /Iman Kholdebarin/ Date Considered

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)</b>	Atty. Docket No. 036140/US - 475387-00020	Serial No. 10/765,430
	Applicant(s) Guillermo J. Tearney	
	Filing Date January 26, 2004	Group 3737

/IK/		Chen, Z. P., T. E. Milner, et al. (1997). "Noninvasive imaging of in vivo blood flow velocity using optical Doppler tomography." <u>Optics Letters</u> 22(14): 1119-1121.
		Chen, Z. P., Y. H. Zhao, et al. (1999). "Optical Doppler tomography." <u>Ieee Journal of Selected Topics in Quantum Electronics</u> 5(4): 1134-1142.
		Cheong, W. F., S. A. Prahl, et al. (1990). "A Review of the Optical-Properties of Biological Tissues." <u>Ieee Journal of Quantum Electronics</u> 26(12): 2166-2185.
		Chernikov, S. V., Y. Zhu, et al. (1997). "Supercontinuum self-Q-switched ytterbium fiber laser." <u>Optics Letters</u> 22(5): 298-300.
		Cho, S. H., B. E. Bouma, et al. (1999). "Low-repetition-rate high-peak-power Kerr-lens mode-locked Ti:Al <sub>2</sub> O <sub>3</sub> laser with a multiple-pass cavity." <u>Optics Letters</u> 24(6): 417-419.
		Choma, M. A., M. V. Sarunic, et al. (2003). "Sensitivity advantage of swept source and Fourier domain optical coherence tomography." <u>Optics Express</u> 11(18): 2183-2189.
		Choma, M. A., C. H. Yang, et al. (2003). "Instantaneous quadrature low-coherence interferometry with 3 x 3 fiber-optic couplers." <u>Optics Letters</u> 28(22): 2162-2164.
		Choplin, N. T. and D. C. Lundy (2001). "The sensitivity and specificity of scanning laser polarimetry in the detection of glaucoma in a clinical setting." <u>Ophthalmology</u> 108 (5): 899-904.
		Christens Barry, W. A., W. J. Green, et al. (1996). "Spatial mapping of polarized light transmission in the central rabbit cornea." <u>Experimental Eye Research</u> 62(6): 651-662.
		Chvapil, M., D. P. Speer, et al. (1984). "Identification of the depth of burn injury by collagen stainability." <u>Plastic &amp; Reconstructive Surgery</u> 73(3): 438-41.
		Cioffi, G. A. (2001). "Three common assumptions about ocular blood flow and glaucoma." <u>Survey of Ophthalmology</u> 45: S325-S331.
		Coleman, A. L. (1999). "Glaucoma." <u>Lancet</u> 354(9192): 1803-10.
		Collaborative Normal-Tension Glaucoma Study Group (1998). "Comparison of Glaucomatous Progression Between Untreated Patients With Normal Tension Glaucoma and Patients with Therapeutically Reduced Intraocular Pressures." <u>Am J Ophthalmol</u> 126: 487-97.
/IK/		Collaborative Normal-Tension Glaucoma Study Group (1998). "The effectiveness of intraocular pressure reduction in the treatment of normal-tension glaucoma." <u>Am J Ophthalmol</u> 126: 498-505.

Examiner	Date Considered
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/Iman Kholdebarin/

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Applicant(s)  
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Filing Date  
January 26, 2004

Group  
3737

/IK/		Collaborative Normal-Tension Glaucoma Study Group (2001). "Natural History of Normal-Tension Glaucoma." <u>Ophthalmology</u> 108: 247-253.
		Colston, B. W., M. J. Everett, et al. (1998). "Imaging of hard- and soft-tissue structure in the oral cavity by optical coherence tomography." <u>Applied Optics</u> 37(16): 3582-3585.
		Colston, B. W., U. S. Sathyam, et al. (1998). "Dental OCT." <u>Optics Express</u> 3(6): 230-238.
		Congdon, N. G., D. S. Friedman, et al. (2003). "Important causes of visual impairment in the world today." <u>Jama-Journal of the American Medical Association</u> 290(15): 2057-2060.
		Cregan, R. F., B. J. Mangan, et al. (1999). "Single-mode photonic band gap guidance of light in air." <u>Science</u> 285(5433): 1537-1539.
		DalMolin, M., A. Galtarossa, et al. (1997). "Experimental investigation of linear polarization in high-birefringence single-mode fibers." <u>Applied Optics</u> 36(12): 2526-2528.
		Danielson, B. L. and C. D. Whittenberg (1987). "Guided-Wave Reflectometry with Micrometer Resolution." <u>Applied Optics</u> 26(14): 2836-2842.
		Dave, D. P. and T. E. Milner (2000). "Doppler-angle measurement in highly scattering media." <u>Optics Letters</u> 25(20): 1523-1525.
		de Boer, J. F., T. E. Milner, et al. (1998). <u>Two dimensional birefringence imaging in biological tissue using phase and polarization sensitive optical coherence tomography</u> . Trends in Optics and Photonics (TOPS): Advances in Optical Imaging and Photon Migration, Orlando, USA, Optical Society of America, Washington, DC 1998.
		de Boer, J. F., C. E. Saxon, et al. (2001). "Stable carrier generation and phase-resolved digital data processing in optical coherence tomography." <u>Applied Optics</u> 40(31): 5787-5790.
		Degroot, P. and L. Deck (1993). "3-Dimensional Imaging by Sub-Nyquist Sampling of White-Light Interferograms." <u>Optics Letters</u> 18(17): 1462-1464.
		Denk, W., J. H. Strickler, et al. (1990). "2-Photon Laser Scanning Fluorescence Microscopy." <u>Science</u> 248(4951): 73-76.
↓	/IK/	Descour, M. R., A. H. O. Karkkainen, et al. (2002). "Toward the development of miniaturized Imaging systems for detection of pre-cancer." <u>Ieee Journal of Quantum Electronics</u> 38(2): 122-130.

Examiner  
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		Filing Date January 26, 2004	Group 3737

/IK/		Dettwiler, L. (1997). "Polarization state interference: A general investigation." <u>Pure and Applied Optics</u> 6(1): 41-53.
		DiCarlo, C. D., W. P. Roach, et al. (1999). "Comparison of optical coherence tomography imaging of cataracts with histopathology." <u>Journal of Biomedical Optics</u> 4.
		Ding, Z., Y. Zhao, et al. (2002). "Real-time phase-resolved optical coherence tomography and optical Doppler tomography." <u>Optics Express</u> 10(5): 236-245.
		Dobrin, P. B. (1996). "Effect of histologic preparation on the cross-sectional area of arterial rings." <u>Journal of Surgical Research</u> 61(2): 413-5.
		Donohue, D. J., B. J. Stoyanov, et al. (1995). "Numerical Modeling of the Corneas Lamellar Structure and Birefringence Properties." <u>Journal of the Optical Society of America a-Optics Image Science and Vision</u> 12(7): 1425-1438.
		Doornbos, R. M. P., R. Lang, et al. (1999). "The determination of in vivo human tissue optical properties and absolute chromophore concentrations using spatially resolved steady-state diffuse reflectance spectroscopy." <u>Physics in Medicine and Biology</u> 44(4): 967-981.
		Drexler, W., A. Baumgartner, et al. (1997). "Biometric investigation of changes in the anterior eye segment during accommodation." <u>Vision Research</u> 37(19): 2789-2800.
		Drexler, W., A. Baumgartner, et al. (1997). "Submicrometer precision biometry of the anterior segment of the human eye." <u>Investigative Ophthalmology &amp; Visual Science</u> 38(7): 1304-1313.
		Drexler, W., A. Baumgartner, et al. (1998). "Dual beam optical coherence tomography: signal identification for ophthalmologic diagnosis." <u>Journal of Biomedical Optics</u> 3 (1): 55-65.
		Drexler, W., O. Findl, et al. (1998). "Partial coherence interferometry: A novel approach to biometry in cataract surgery." <u>American Journal of Ophthalmology</u> 126(4): 524-534.
↓		Drexler, W., O. Findl, et al. (1997). "Clinical feasibility of dual beam optical coherence topography and tomography for ophthalmologic diagnosis." <u>Investigative Ophthalmology &amp; Visual Science</u> 38(4): 1038-1038.
/IK/		Drexler, W., C. K. Hitzenberger, et al. (1998). "Investigation of dispersion effects in ocular media by multiple wavelength partial coherence interferometry." <u>Experimental Eye Research</u> 66(1): 25-33.

Examiner	/Iman Kholdebarin/	Date Considered
----------	--------------------	-----------------

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	Applicant(s) Guillermo J. Tearney	
	Filing Date January 26, 2004	Group 3737

/IK/	Drexler, W., C. K. Hitzenberger, et al. (1996). "(Sub)micrometer precision biometry of the human eye by optical coherence tomography and topography." <u>Investigative Ophthalmology &amp; Visual Science</u> 37(3): 4374-4374.
	Drexler, W., C. K. Hitzenberger, et al. (1995). "Measurement of the Thickness of Fundus Layers by Partial Coherence Tomography." <u>Optical Engineering</u> 34(3): 701-710.
	Drexler, W., U. Morgner, et al. (2001). "Ultrahigh-resolution ophthalmic optical coherence tomography." <u>Nature Medicine</u> 7(4): 502-507.
	Drexler, W., U. Morgner, et al. (2001). "Ultrahigh-resolution ophthalmic optical coherence tomography. [erratum appears in Nat Med 2001 May;7(5):636.]." <u>Nature Medicine</u> 7(4): 502-7.
	Drexler, W., H. Sattmann, et al. (2003). "Enhanced visualization of macular pathology with the use of ultrahigh-resolution optical coherence tomography." <u>Archives of Ophthalmology</u> 121(5): 695-706.
	Drexler, W., D. Stamper, et al. (2001). "Correlation of collagen organization with polarization sensitive imaging of in vitro cartilage: implications for osteoarthritis." <u>Journal of Rheumatology</u> 28(6): 1311-8.
	Droog, E. J., W. Steenbergen, et al. (2001). "Measurement of depth of burns by laser Doppler perfusion imaging." <u>Burns</u> 27(6): 561-8.
	Dubois, A., K. Grieve, et al. (2004). "Ultrahigh-resolution full-field optical coherence tomography." <u>Applied Optics</u> 43(14): 2874-2883.
	Dubois, A., L. Vabre, et al. (2002). "High-resolution full-field optical coherence tomography with a Linnik microscope." <u>Applied Optics</u> 41(4): 805-812.
	Ducros, M., M. Laubscher, et al. (2002). "Parallel optical coherence tomography in scattering samples using a two-dimensional smart-pixel detector array." <u>Optics Communications</u> 202(1-3): 29-35.
	Ducros, M. G., J. D. Marsack, et al. (2001). "Primate retina imaging with polarization-sensitive optical coherence tomography." <u>Journal of the Optical Society of America a-Optics Image Science and Vision</u> 18(12): 2945-2956.
/IK/	Duncan, A., J. H. Meek, et al. (1995). "Optical Pathlength Measurements on Adult Head, Calf and Forearm and the Head of the Newborn-Infant Using Phase-Resolved Optical Spectroscopy." <u>Physics in Medicine and Biology</u> 40(2): 295-304.

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		Filing Date January 26, 2004	Group 3737

/IK/		Eigensee, A., G. Haeusler, et al. (1996). "New method of short-coherence interferometry in human skin (in vivo) and in solid volume scatterers." <u>Proceedings of SPIE - The International Society for Optical Engineering</u> 2925: 169-178.
		Eisenbeiss, W., J. Marotz, et al. (1999). "Reflection-optical multispectral imaging method for objective determination of burn depth." <u>Burns</u> 25(8): 697-704.
		Elbaum, M., M. King, et al. (1972). "Wavelength-Diversity Technique for Reduction of Speckle Size." <u>Journal of the Optical Society of America</u> 62(5): 732-&.
		Ervin, J. C., H. G. Lemij, et al. (2002). "Clinician change detection viewing longitudinal stereophotographs compared to confocal scanning laser tomography in the LSU Experimental Glaucoma (LEG) Study." <u>Ophthalmology</u> 109(3): 467-81.
		Essenpreis, M., C. E. Elwell, et al. (1993). "Spectral Dependence of Temporal Point Spread Functions in Human Tissues." <u>Applied Optics</u> 32(4): 418-425.
		Eun, H. C. (1995). "Evaluation of skin blood flow by laser Doppler flowmetry. [Review] [151 refs]." <u>Clinics in Dermatology</u> 13(4): 337-47.
		Evans, J. A., J. M. Poneros, et al. (2004). "Application of a histopathologic scoring system to optical coherence tomography (OCT) images to identify high-grade dysplasia in Barrett's esophagus." <u>Gastroenterology</u> 126(4): A51-A51.
		Feldchtein, F. I., G. V. Gelikonov, et al. (1998). "In vivo OCT imaging of hard and soft tissue of the oral cavity." <u>Optics Express</u> 3(6): 239-250.
		Feldchtein, F. I., G. V. Gelikonov, et al. (1998). "Endoscopic applications of optical coherence tomography." <u>Optics Express</u> 3(6): 257-270.
✓		Fercher, A. F., W. Drexler, et al. (1997). "Optical ocular tomography." <u>Neuro- Ophthalmology</u> 18(2): 39-49.
/IK/		Fercher, A. F., W. Drexler, et al. (1994). <u>Measurement of optical distances by optical spectrum modulation</u> . <u>Proceedings of SPIE - The International Society for Optical Engineering</u> .

Examiner	/Iman Kholdebarin/	Date Considered
----------	--------------------	-----------------

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/IK/		Fercher, A. F., W. Drexler, et al. (2003). "Optical coherence tomography - principles and applications." <u>Reports on Progress in Physics</u> 66(2): 239-303.
		Fercher, A. F., C. Hitzenberger, et al. (1991). "Measurement of Intraocular Optical Distances Using Partially Coherent Laser-Light." <u>Journal of Modern Optics</u> 38(7): 1327-1333.
		Fercher, A. F., C. K. Hitzenberger, et al. (1996). <u>Ocular partial coherence interferometry</u> . Proceedings of SPIE - The International Society for Optical Engineering.
		Fercher, A. F., C. K. Hitzenberger, et al. (1993). "In-Vivo Optical Coherence Tomography." <u>American Journal of Ophthalmology</u> 116(1): 113-115.
		Fercher, A. F., C. K. Hitzenberger, et al. (1994). <u>In-vivo dual-beam optical coherence tomography</u> . Proceedings of SPIE - The International Society for Optical Engineering.
		Fercher, A. F., C. K. Hitzenberger, et al. (1995). "Measurement of Intraocular Distances by Backscattering Spectral Interferometry." <u>Optics Communications</u> 117(1-2): 43-48.
		Fercher, A. F., C. K. Hitzenberger, et al. (2000). "A thermal light source technique for optical coherence tomography." <u>Optics Communications</u> 185(1-3): 57-64.
		Fercher, A. F., C. K. Hitzenberger, et al. (2001). "Numerical dispersion compensation for Partial Coherence Interferometry and Optical Coherence Tomography." <u>Optics Express</u> 9(12): 610-615.
		Fercher, A. F., C. K. Hitzenberger, et al. (2002). "Dispersion compensation for optical coherence tomography depth- scan signals by a numerical technique." <u>Optics Communications</u> 204(1-6): 67-74.
		Fercher, A. F., H. C. Li, et al. (1993). "Slit Lamp Laser-Doppler Interferometer." <u>Lasers in Surgery and Medicine</u> 13(4): 447-452.
↓	/IK/	Fercher, A. F., K. Mengedoht, et al. (1988). "Eye-Length Measurement by Interferometry with Partially Coherent-Light." <u>Optics Letters</u> 13(3): 186-188.

Examiner	/Iman Kholdebarin/	Date Considered
----------	--------------------	-----------------

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		Filing Date January 26, 2004	Group 3737

Tb		Ferro, P., M. Haelterman, et al. (1991). "All-Optical Polarization Switch with Long Low-Birefringence Fiber." <u>Electronics Letters</u> 27(16): 1407-1408.
		Fetterman, M. R., D. Goswami, et al. (1998). "Ultrafast pulse shaping: amplification and characterization." <u>Optics Express</u> 3(10): 366-375.
		Findl, O., W. Drexler, et al. (2001). "Improved prediction of intraocular lens power using partial coherence interferometry." <u>Journal of Cataract and Refractive Surgery</u> 27 (6): 861-867.
		Fork, R. L., C. H. B. Cruz, et al. (1987). "Compression of Optical Pulses to 6 Femtoseconds by Using Cubic Phase Compensation." <u>Optics Letters</u> 12(7): 483-485.
		Foschini, G. J. and C. D. Poole (1991). "Statistical-Theory of Polarization Dispersion in Single-Mode Fibers." <u>Journal of Lightwave Technology</u> 9(11): 1439-1456.
		Francia, C., F. Bruyere, et al. (1998). "PMD second-order effects on pulse propagation in single-mode optical fibers." <u>Ieee Photonics Technology Letters</u> 10(12): 1739-1741
		Fried, D., R. E. Glana, et al. (1995). "Nature of Light-Scattering in Dental Enamel and Dentin at Visible and near-Infrared Wavelengths." <u>Applied Optics</u> 34(7): 1278-1285.
		Fujimoto, J. G., M. E. Brezinski, et al. (1995). "Optical Biopsy and Imaging Using Optical Coherence Tomography." <u>Nature Medicine</u> 1(9): 970-972.
		Fukasawa, A. and H. Iijima (2002). "Optical coherence tomography of choroidal osteoma." <u>American Journal of Ophthalmology</u> 133(3): 419-21.
		Fymat, A. L. (1981). "High-Resolution Interferometric Spectrophotopolarimetry." <u>Optical Engineering</u> 20(1): 25-30.
		Galtarossa, A., L. Palmieri, et al. (2000). "Statistical characterization of fiber random birefringence." <u>Optics Letters</u> 25(18): 1322-1324.
↓		Galtarossa, A., L. Palmieri, et al. (2000). "Measurements of beat length and perturbation length in long single-mode fibers." <u>Optics Letters</u> 25(6): 384-386.

Examiner

Date Considered

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		Filing Date January 26, 2004	Group 3737

27k		Gandjbakhche, A. H., P. Mills, et al. (1994). "Light-Scattering Technique for the Study of Orientation and Deformation of Red-Blood-Cells in a Concentrated Suspension." <u>Applied Optics</u> 33(6): 1070-1078.
		Garcia, N. and M. Nieto-Vesperinas (2002). "Left-handed materials do not make a perfect lens." <u>Physical Review Letters</u> 88(20).
		Gelikonov, V. M., G. V. Gelikonov, et al. (1995). "Coherent Optical Tomography of Microscopic Inhomogeneities in Biological Tissues." <u>Jetp Letters</u> 61(2): 158-162.
		George, N. and A. Jain (1973). "Speckle Reduction Using Multiple Tones of Illumination." <u>Applied Optics</u> 12(6): 1202-1212.
		Gibson, G. N., R. Klank, et al. (1996). "Electro-optically cavity-dumped ultrashort-pulse Ti:sapphire oscillator." <u>Optics Letters</u> 21(14): 1055.
		Gil, J. J. (2000). "Characteristic properties of Mueller matrices." <u>Journal of the Optical Society of America a-Optics Image Science and Vision</u> 17(2): 328-334.
		Gil, J. J. and E. Bernabeu (1987). "Obtainment of the Polarizing and Retardation Parameters of a Nondepolarizing Optical-System from the Polar Decomposition of Its Mueller Matrix." <u>Optik</u> 76(2): 67-71.
		Gladkova, N. D., G. A. Petrova, et al. (2000). "In vivo optical coherence tomography imaging of human skin: norm and pathology." <u>Skin Research and Technology</u> 6 (1): 6-16.
		Glaessl, A., A. G. Schreyer, et al. (2001). "Laser surgical planning with magnetic resonance imaging-based 3-dimensional reconstructions for intralesional Nd : YAG laser therapy of a venous malformation of the neck." <u>Archives of Dermatology</u> 137(10): 1331-1335.
		Gloesmann, M., B. Hermann, et al. (2003). "Histologic correlation of pig retina radial stratification with ultrahigh-resolution optical coherence tomography." <u>Investigative Ophthalmology &amp; Visual Science</u> 44(4): 1696-1703.
		Goldberg, L. and D. Mehuys (1994). "High-Power Superluminescent Diode Source." <u>Electronics Letters</u> 30(20): 1682-1684.
27k		Goldsmith, J. A., Y. Li, et al. (2005). "Anterior chamber width measurement by high speed optical coherence tomography." <u>Ophthalmology</u> 112(2): 238-244.

Examiner

Date Considered

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Applicant(s)  
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Filing Date  
January 26, 2004

Group  
3737

TK		Goldstein, L. E., J. A. Muffat, et al. (2003). "Cytosolic beta-amyloid deposition and supranuclear cataracts in lenses from people with Alzheimer's disease." <u>Lancet</u> 361(9365): 1258-1265.
		Golubovic, B., B. E. Bouma, et al. (1996). "Thin crystal, room-temperature Cr/sup 4 +/forstefite laser using near-infrared pumping." <u>Optics Letters</u> 21(24): 1993-1995.
		Gonzalez, S. and Z. Tannous (2002). "Real-time, in vivo confocal reflectance microscopy of basal cell carcinoma." <u>Journal of the American Academy of Dermatology</u> 47(6): 869-874.
		Gordon, M. O. and M. A. Kass (1999). "The Ocular Hypertension Treatment Study: design and baseline description of the participants." <u>Archives of Ophthalmology</u> 117(5): 573-83.
		Grayson, T. P., J. R. Torgerson, et al. (1994). "Observation of a Nonlocal Pancharatnam Phase-Shift in the Process of Induced Coherence without Induced Emission." <u>Physical Review A</u> 49(1): 626-628.
		Greaney, M. J., D. C. Hoffman, et al. (2002). "Comparison of optic nerve imaging methods to distinguish normal eyes from those with glaucoma." <u>Investigative Ophthalmology &amp; Visual Science</u> 43(1): 140-5.
		Greenfield, D. S., H. Bagga, et al. (2003). "Macular thickness changes in glaucomatous optic neuropathy detected using optical coherence tomography." <u>Archives of Ophthalmology</u> 121(1): 41-46.
		Greenfield, D. S., R. W. Knighton, et al. (2000). "Effect of corneal polarization axis on assessment of retinal nerve fiber layer thickness by scanning laser polarimetry." <u>American Journal of Ophthalmology</u> 129(6): 715-722.
		Griffin, R. A., D. D. Sampson, et al. (1995). "Coherence Coding for Photonic Code-Division Multiple-Access Networks." <u>Journal of Lightwave Technology</u> 13(9): 1826-1837.
		Guedes, V., J. S. Schuman, et al. (2003). "Optical coherence tomography measurement of macular and nerve fiber layer thickness in normal and glaucomatous human eyes." <u>Ophthalmology</u> 110(1): 177-189.
		Gueugniaud, P. Y., H. Carsin, et al. (2000). "Current advances in the initial management of major thermal burns. [Review] [76 refs]." <u>Intensive Care Medicine</u> 26(7): 848-56.

Examiner

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Group  
3737

<i>TK</i>		Guido, S. and R. T. Tranquillo (1993). "A Methodology for the Systematic and Quantitative Study of Cell Contact Guidance in Oriented Collagen Gels - Correlation of Fibroblast Orientation and Gel Birefringence." <u>Journal of Cell Science</u> 105: 317-331.
		Gurses-Ozden, R., H. Ishikawa, et al. (1999). "Increasing sampling density improves reproducibility of optical coherence tomography measurements." <u>Journal of Glaucoma</u> 8(4): 238-41.
		Guzzi, R. (1998). "Scattering Theory from Homogeneous and Coated Spheres." 1-11.
		Haberland, U. B., Vladimir; Schmitt, Hans J. (1996). "Optical coherent tomography of scattering media using electrically tunable near-infrared semiconductor laser." <u>Applied Optics</u> Draft Copy.
		Haberland, U. R., Walter; Blazek, Vladimir; Schmitt, Hans J. (1995). "Investigation of highly scattering media using near-infrared continuous wave tunable semiconductor laser." <u>Proc. SPIE</u> , 2389: 503-512.
		Hale, G. M. and M. R. Querry (1973). "Optical-Constants of Water in 200-Nm to 200-Mum Wavelength Region." <u>Applied Optics</u> 12(3): 555-563.
		Hammer, D. X., R. D. Ferguson, et al. (2002). "Image stabilization for scanning laser ophthalmoscopy." <u>Optics Express</u> 10(26): 1542.
		Hara, T., Y. Ooi, et al. (1989). "Transfer Characteristics of the Microchannel Spatial Light-Modulator." <u>Applied Optics</u> 28(22): 4781-4786.
		Harland, C. C., S. G. Kale, et al. (2000). "Differentiation of common benign pigmented skin lesions from melanoma by high-resolution ultrasound." <u>British Journal of Dermatology</u> 143(2): 281-289.
		Hartl, I., X. D. Li, et al. (2001). "Ultrahigh-resolution optical coherence tomography using continuum generation in an air-silica microstructure optical fiber." <u>Optics Letters</u> 26(9): 608-610.
		Hassenstein, A., A. A. Bialasiewicz, et al. (2000). "Optical coherence tomography in uveitis patients." <u>American Journal of Ophthalmology</u> 130(5): 669-70.
<i>TK</i>		Hattenhauer, M. G., D. H. Johnson, et al. (1998). "The probability of blindness from open-angle glaucoma. [see comments]." <u>Ophthalmology</u> 105(11): 2099-104.

Examiner

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Group  
3737

I K		<p>Hausler, G., J. M. Herrmann, et al. (1996). "Observation of light propagation in volume scatterers with 10(11)-fold slow motion." <u>Optics Letters</u> 21(14): 1087-1089.</p> <p>Hazebroek, H. F. and A. A. Holscher (1973). "Interferometric Ellipsometry." <u>Journal of Physics E-Scientific Instruments</u> 6(9): 822-826.</p> <p>Hazebroek, H. F. and W. M. Visser (1983). "Automated Laser Interferometric Ellipsometry and Precision Reflectometry." <u>Journal of Physics E-Scientific Instruments</u> 16(7): 654-661.</p> <p>He, Z. Y., N. Mukohzaka, et al. (1997). "Selective image extraction by synthesis of the coherence function using two-dimensional optical lock-in amplifier with microchannel spatial light modulator." <u>Ieee Photonics Technology Letters</u> 9(4): 514-516.</p> <p>Hee, M. R., J. A. Izatt, et al. (1993). "Femtosecond Transillumination Optical Coherence Tomography." <u>Optics Letters</u> 18(12): 950-952.</p> <p>Hee, M. R., J. A. Izatt, et al. (1995). "Optical coherence tomography of the human retina." <u>Archives of Ophthalmology</u> 113(3): 325-32.</p> <p>Hee, M. R., C. A. Puliafito, et al. (1998). "Topography of diabetic macular edema with optical coherence tomography." <u>Ophthalmology</u> 105(2): 360-70.</p> <p>Hee, M. R., C. A. Puliafito, et al. (1995). "Quantitative assessment of macular edema with optical coherence tomography." <u>Archives of Ophthalmology</u> 113(8): 1019-29.</p> <p>Hellmuth, T. and M. Welle (1998). "Simultaneous measurement of dispersion, spectrum, and distance with a fourier transform spectrometer." <u>Journal of Biomedical Optics</u> 3(1): 7-11.</p> <p>Hemenger, R. P. (1989). "Birefringence of a medium of tenuous parallel cylinders." <u>APPLIED OPTICS</u> 28(18): 4030-4034.</p> <p>Henry, M. (1981). "Fresnel-Arago Laws for Interference in Polarized-Light - Demonstration Experiment." <u>American Journal of Physics</u> 49(7): 690-691.</p> <p>Herz, P. R., Y. Chen, et al. (2004). "Micromotor endoscope catheter for in vivo, ultrahigh-resolution optical coherence tomography." <u>Optics Letters</u> 29(19): 2261-2263.</p>
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Examiner

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Form PTO-1449 U.S. Department of Commerce  
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Filing Date  
January 26, 2004

Group  
3737

I	e	Hirakawa, H., H. Iijima, et al. (1999). "Optical coherence tomography of cystoid macular edema associated with retinitis pigmentosa." <u>American Journal of Ophthalmology</u> 128(2): 185-91.
		Hitzenberger, C. K., A. Baumgartner, et al. (1994). "Interferometric Measurement of Corneal Thickness with Micrometer Precision." <u>American Journal of Ophthalmology</u> 118(4): 468-476.
		Hitzenberger, C. K., A. Baumgartner, et al. (1999). "Dispersion effects in partial coherence interferometry: Implications for intraocular ranging." <u>Journal of Biomedical Optics</u> 4(1): 144-151.
		Hitzenberger, C. K., A. Baumgartner, et al. (1998). "Dispersion induced multiple signal peak splitting in partial coherence interferometry." <u>Optics Communications</u> 154 (4): 179-185.
		Hitzenberger, C. K., M. Danner, et al. (1999). "Measurement of the spatial coherence of superluminescent diodes." <u>Journal of Modern Optics</u> 46(12): 1763-1774.
		Hitzenberger, C. K. and A. F. Fercher (1999). "Differential phase contrast in optical coherence tomography." <u>Optics Letters</u> 24(9): 622-624.
		Hitzenberger, C. K., M. Sticker, et al. (2001). "Differential phase measurements in low-coherence interferometry without 2 pi ambiguity." <u>Optics Letters</u> 26(23): 1864-1866.
		Hoeling, B. M., A. D. Fernandez, et al. (2000). "An optical coherence microscope for 3-dimensional imaging in developmental biology." <u>Optics Express</u> 6(7): 136-146.
		Hoerauf, H., C. Scholz, et al. (2002). "Transscleral optical coherence tomography: a new imaging method for the anterior segment of the eye." <u>Archives of Ophthalmology</u> 120(6): 816-9.
		Hoffmann, K., M. Happe, et al. (1998). "Optical coherence tomography (OCT) in dermatology." <u>Journal of Investigative Dermatology</u> 110(4): 583-583.
		Hoh, S. T., D. S. Greenfield, et al. (2000). "Optical coherence tomography and scanning laser polarimetry in normal, ocular hypertensive, and glaucomatous eyes." <u>American Journal of Ophthalmology</u> 129(2): 129-35.
↓	↓	Hohenleutner, U., M. Hilbert, et al. (1995). "Epidermal Damage and Limited Coagulation Depth with the Flashlamp-Pumped Pulsed Dye-Laser - a Histochemical-Study." <u>Journal of Investigative Dermatology</u> 104(5): 798-802.

Examiner

Date Considered

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Dk		Holland, A. J. A., H. C. O. Martin, et al. (2002). "Laser Doppler imaging prediction of burn wound outcome in children." <u>Burns</u> 28(1): 11-17.
		Hotate, K. and T. Okugawa (1994). "Optical Information-Processing by Synthesis of the Coherence Function." <u>Journal of Lightwave Technology</u> 12(7): 1247-1255.
		Hourdakis, C. J. and A. Perris (1995). "A Monte-Carlo Estimation of Tissue Optical-Properties for Use in Laser Dosimetry." <u>Physics in Medicine and Biology</u> 40(3): 351-364.
		Hu, Z., F. Li, et al. (2000). "Wavelength-tunable narrow-linewidth semiconductor fiber-ring laser." <u>IEEE Photonics Technology Letters</u> 12(8): 977-979.
		Huang, F., W. Yang, et al. (2001). "Quadrature spectral interferometric detection and pulse shaping." <u>Optics Letters</u> 26(6): 382-384.
		Huang, X. R. and R. W. Knighton (2002). "Linear birefringence of the retinal nerve fiber layer measured in vitro with a multispectral imaging micropolarimeter." <u>Journal of Biomedical Optics</u> 7(2): 199-204.
		Huber, R., M. Wojtkowski, et al. (2005). "Amplified, frequency swept lasers for frequency domain reflectometry and OCT imaging: design and scaling principles." <u>Optics Express</u> 13(9): 3513-3528.
		Hunter, D. G., J. C. Sandruck, et al. (1999). "Mathematical modeling of retinal birefringence scanning." <u>Journal of the Optical Society of America a-Optics Image Science and Vision</u> 16(9): 2103-2111.
		Hurwitz, H. H. and R. C. Jones (1941). "A new calculus for the treatment of optical systems II. Proof of three general equivalence theorems." <u>Journal of the Optical Society of America</u> 31(7): 493-499.
		Huttner, B., C. De Barros, et al. (1999). "Polarization-induced pulse spreading in birefringent optical fibers with zero differential group delay." <u>Optics Letters</u> 24(6): 370-372.
Dk		Huttner, B., B. Gisin, et al. (1999). "Distributed PMD measurement with a polarization-OTDR in optical fibers." <u>Journal of Lightwave Technology</u> 17(10): 1843-1848.

Examiner

Date Considered

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

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Applicant(s)  
Guillermo J. Tearney

Filing Date  
January 26, 2004

Group  
3737

TK		Huttner, B., J. Reecht, et al. (1998). "Local birefringence measurements in single-mode fibers with coherent optical frequency-domain reflectometry." <u>Ieee Photonics Technology Letters</u> 10(10): 1458-1460.
		Hyde, S. C. W., N. P. Barry, et al. (1995). "Sub-100-Mu-M Depth-Resolved Holographic Imaging through Scattering Media in the near-Infrared." <u>Optics Letters</u> 20(22): 2330-2332.
		Hyde, S. C. W., N. P. Barry, et al. (1995). "Depth-Resolved Holographic Imaging through Scattering Media by Photorefraction." <u>Optics Letters</u> 20(11): 1331-1333.
		Iftimia, N. V., B. E. Bouma, et al. (2004). "Adaptive ranging for optical coherence tomography." <u>Optics Express</u> 12(17): 4025-4034.
		Iida, T., N. Hagimura, et al. (2000). "Evaluation of central serous chorioretinopathy with optical coherence tomography." <u>American Journal of Ophthalmology</u> 129(1): 16-20.
		Imai, M., H. Iijima, et al. (2001). "Optical coherence tomography of tractional macular elevations in eyes with proliferative diabetic retinopathy. [republished in Am J Ophthalmol. 2001 Sep;132(3):458-61 ; 11530091]." <u>American Journal of Ophthalmology</u> 132(1): 81-4.
		Indebetouw, G. and P. Klysubun (2000). "Imaging through scattering media with depth resolution by use of low-coherence gating in spatiotemporal digital holography." <u>Optics Letters</u> 25(4): 212-214.
		Ip, M. S., B. J. Baker, et al. (2002). "Anatomical outcomes of surgery for idiopathic macular hole as determined by optical coherence tomography." <u>Archives of Ophthalmology</u> 120(1): 29-35.
		Ismail, R., V. Tanner, et al. (2002). "Optical coherence tomography imaging of severe commotio retinae and associated macular hole." <u>British Journal of Ophthalmology</u> 86(4): 473-4.
		Izatt, J. A., M. R. Hee, et al. (1994). "Optical Coherence Microscopy in Scattering Media." <u>Optics Letters</u> 19(8): 590-592.
IK		Izatt, J. A., M. R. Hee, et al. (1994). "Micrometer-scale resolution imaging of the anterior eye in vivo with optical coherence tomography." <u>Archives of Ophthalmology</u> 112 (12): 1584-9.

Examiner

Date Considered

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Filing Date  
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Group  
3737

<i>Ele</i>		Izatt, J. A., M. D. Kulkarni, et al. (1997). "In vivo bidirectional color Doppler flow imaging of picoliter blood volumes using optical coherence tomography." <u>Optics Letters</u> 22(18): 1439-1441.
		Izatt, J. A., M. D. Kulkarni, et al. (1996). "Optical coherence tomography and microscopy in gastrointestinal tissues." <u>IEEE Journal of Selected Topics in Quantum Electronics</u> 2(4): 1017.
		Jacques, S. L., J. S. Nelson, et al. (1993). "Pulsed Photothermal Radiometry of Port-Wine-Stain Lesions." <u>Applied Optics</u> 32(13): 2439-2446.
		Jacques, S. L., J. R. Roman, et al. (2000). "Imaging superficial tissues with polarized light." <u>Lasers in Surgery and Medicine</u> 26(2): 119-129.
		Jang, I. K., B. E. Bouma, et al. (2002). "Visualization of coronary atherosclerotic plaques in patients using optical coherence tomography: Comparison with intravascular ultrasound." <u>Journal of the American College of Cardiology</u> 39(4): 604-609.
		Jang, I. K., B. D. MacNeill, et al. (2002). "In-vivo characterization of coronary plaques in patients with ST elevation acute myocardial infarction using optical coherence tomography (OCT)." <u>Circulation</u> 106(19): 698-698 3440 Suppl. S.,
		Jang, I. K., G. J. Tearney, et al. (2000). "Comparison of optical coherence tomography and intravascular ultrasound for detection of coronary plaques with large lipid-core in living patients." <u>Circulation</u> 102(18): 509-509.
		Jeng, J. C., A. Bridgeman, et al. (2003). "Laser Doppler imaging determines need for excision and grafting in advance of clinical judgment: a prospective blinded trial." <u>Burns</u> 29(7): 665-670.
		Jesser, C. A., S. A. Boppart, et al. (1999). "High resolution imaging of transitional cell carcinoma with optical coherence tomography: feasibility for the evaluation of bladder pathology." <u>British Journal of Radiology</u> 72: 1170-1176.
		Johnson, C. A., J. L. Keltner, et al. (2002). "Baseline visual field characteristics in the ocular hypertension treatment study." <u>Ophthalmology</u> 109(3): 432-7.
<i>TK</i>		Jones, R. C. (1941). "A new calculus for the treatment of optical systems III. The Sohncke theory of optical activity." <u>Journal of the Optical Society of America</u> 31 (7): 500-503.

Examiner

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Filing Date  
January 26, 2004

Group  
3737

I 12 Jones, R. C. (1941). "A new calculus for the treatment of optical systems I. Description and discussion of the calculus." Journal of the Optical Society of America 31(7): 488-493.

I 13 Jones, R. C. (1942). "A new calculus for the treatment of optical systems. IV." Journal of the Optical Society of America 32(8): 486-493.

I 14 Jones, R. C. (1947). "A New Calculus for the Treatment of Optical Systems .6. Experimental Determination of the Matrix." Journal of the Optical Society of America 37(2): 110-112.

I 15 Jones, R. C. (1947). "A New Calculus for the Treatment of Optical Systems .5. A More General Formulation, and Description of Another Calculus." Journal of the Optical Society of America 37(2): 107-110.

I 16 Jones, R. C. (1948). "A New Calculus for the Treatment of Optical Systems .7. Properties of the N-Matrices." Journal of the Optical Society of America 38(8): 671-685.

I 17 Jones, R. C. (1956). "New Calculus for the Treatment of Optical Systems .8. Electromagnetic Theory." Journal of the Optical Society of America 46(2): 126-131.

I 18 Jopson, R. M., L. E. Nelson, et al. (1999). "Measurement of second-order polarization-mode dispersion vectors in optical fibers." Ieee Photonics Technology Letters 11 (9): 1153-1155.

I 19 Jost, B. M., A. V. Sergienko, et al. (1998). "Spatial correlations of spontaneously down-converted photon pairs detected with a single-photon-sensitive CCD camera." Optics Express 3(2): 81-88.

I 20 Kaplan, B., E. Complain, et al. (2000). "Phase-modulated Mueller ellipsometry characterization of scattering by latex sphere suspensions." Applied Optics 39 (4): 629-636.

I 21 Kass, M. A., D. K. Heuer, et al. (2002). "The Ocular Hypertension Treatment Study: a randomized trial determines that topical ocular hypotensive medication delays or prevents the onset of primary open-angle glaucoma." Archives of Ophthalmology 120(6): 701-13; discussion 829-30.

I 22 Kasuga, Y., J. Arai, et al. (2000). "Optical coherence tomography to confirm early closure of macular holes." American Journal of Ophthalmology 130(5): 675-6.

Examiner

Date Considered

Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office		Atty. Docket No. 036140/US - 475387-00020	Serial No. 10/765,430
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IK		Kaufman, T., S. N. Lusthaus, et al. (1990). "Deep Partial Skin Thickness Burns – a Reproducible Animal-Model to Study Burn Wound-Healing." <u>Burns</u> 16(1): 13-16.
		Kemp, N. J., J. Park, et al. (2005). "High-sensitivity determination of birefringence in turbid media with enhanced polarization-sensitive optical coherence tomography." <u>Journal of the Optical Society of America a-Optics Image Science and Vision</u> 22(3): 552-560.
		Kerrigan-Baumrind, L. A., H. A. Quigley, et al. (2000). "Number of ganglion cells in glaucoma eyes compared with threshold visual field tests in the same persons." <u>Investigative Ophthalmology &amp; Visual Science</u> 41(3): 741-8.
		Kesen, M. R., G. L. Spaeth, et al. (2002). "The Heidelberg Retina Tomograph vs clinical impression in the diagnosis of glaucoma." <u>American Journal of Ophthalmology</u> 133(5): 613-6.
		Kienle, A. and R. Hibst (1995). "A New Optimal Wavelength for Treatment of Port-Wine Stains." <u>Physics in Medicine and Biology</u> 40(10): 1559-1576.
		Kienle, A., L. Lilge, et al. (1996). "Spatially resolved absolute diffuse reflectance measurements for noninvasive determination of the optical scattering and absorption coefficients of biological tissue." <u>Applied Optics</u> 35(13): 2304-2314.
		Kim, B. Y. and S. S. Choi (1981). "Analysis and Measurement of Birefringence in Single-Mode Fibers Using the Backscattering Method." <u>Optics Letters</u> 6(11): 578-580.
		Kimel, S., L. O. Svaasand, et al. (1994). "Differential Vascular-Response to Laser Photothermolysis." <u>Journal of Investigative Dermatology</u> 103(5): 693-700.
		Kloppenberg, F. W. H., G. Beertuizen, et al. (2001). "Perfusion of burn wounds assessed by Laser Doppler Imaging is related to burn depth and healing time." <u>Burns</u> 27(4): 359-363.
		Knighton, R. W. and X. R. Huang (2002). "Analytical methods for scanning laser polarimetry." <u>Optics Express</u> 10(21): 1179-1189.
IK		Knighton, R. W., X. R. Huang, et al. (2002). "Analytical model of scanning laser polarimetry for retinal nerve fiber layer assessment." <u>Investigative Ophthalmology &amp; Visual Science</u> 43(2): 383-392.

Examiner

Date Considered

Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office		Atty. Docket No. 036140/US - 475387-00020	Serial No. 10/765,430
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use several sheets if necessary)		Applicant(s) Guillermo J. Tearney	
		Filing Date January 26, 2004	Group 3737

TK		Knuettel, A. R. S., Joseph M.; Shay, M.; Knutson, Jay R. (1994). "Stationary low-coherence light imaging and spectroscopy using a CCD camera." <u>Proc. SPIE</u> , Vol. 2135: p. 239-250.
		Knuttel, A. and M. Boehlau-Godau (2000). "Spatially confined and temporally resolved refractive index and scattering evaluation in human skin performed with optical coherence tomography." <u>Journal of Biomedical Optics</u> 5(1): 83-92.
		Knuttel, A. and J. M. Schmitt (1993). "Stationary Depth-Profiling Reflectometer Based on Low-Coherence Interferometry." <u>Optics Communications</u> 102(3-4): 193-198.
		Knuttel, A., J. M. Schmitt, et al. (1994). "Low-Coherence Reflectometry for Stationary Lateral and Depth Profiling with Acoustooptic Deflectors and a Ccd Camera." <u>Optics Letters</u> 19(4): 302-304.
		Kobayashi, M., H. Hanafusa, et al. (1991). "Polarization-Independent Interferometric Optical-Time-Domain Reflectometer." <u>Journal of Lightwave Technology</u> 9(5): 623-628.
		Kolios, M. C., M. D. Sherar, et al. (1995). "Large Blood-Vessel Cooling in Heated Tissues - a Numerical Study." <u>Physics in Medicine and Biology</u> 40(4): 477-494.
		Koozekanani, D., K. Boyer, et al. (2001). "Retinal thickness measurements from optical coherence tomography using a Markov boundary model." <u>Ieee Transactions on Medical Imaging</u> 20(9): 900-916.
		Kop, R. H. J. and R. Sprik (1995). "Phase-sensitive interferometry with ultrashort optical pulses." <u>Review of Scientific Instruments</u> 66(12): 5459-5463.
		Kramer, R. Z., J. Bella, et al. (1999). "Sequence dependent conformational variations of collagen triple-helical structure." <u>Nature Structural Biology</u> 6(5): 454-7.
		Kulkarni, M. D., T. G. van Leeuwen, et al. (1998). "Velocity-estimation accuracy and frame-rate limitations in color Doppler optical coherence tomography." <u>Optics Letters</u> 23(13): 1057-1059.
TK		Kwon, Y. H., C. S. Kim, et al. (2001). "Rate of visual field loss and long-term visual outcome in primary open-angle glaucoma." <u>American Journal of Ophthalmology</u> 132(1): 47-56.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Serial No.  
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Applicant(s)  
Guillermo J. Tearney

Filing Date  
January 26, 2004

Group  
3737

TK		Kwong, K. F., D. Yankelevich, et al. (1993). "400-Hz Mechanical Scanning Optical Delay-Line." <u>Optics Letters</u> 18(7): 558-560.
		Landers, J., I. Goldberg, et al. (2002). "Analysis of risk factors that may be associated with progression from ocular hypertension to primary open angle glaucoma." <u>Clin Experiment Ophthalmology</u> 30(4): 242-7.
		Laszlo, A. and A. Venetianer (1998). Heat resistance in mammalian cells: Lessons and challenges. <u>Stress of Life</u> . 851: 169-178.
		Laszlo, A. and A. Venetianer (1998). "Heat resistance in mammalian cells: lessons and challenges. [Review] [52 refs]." <u>Annals of the New York Academy of Sciences</u> 851: 169-78.
		Laufer, J., R. Simpson, et al. (1998). "Effect of temperature on the optical properties of ex vivo human dermis and subdermis." <u>Physics in Medicine and Biology</u> 43(9): 2479-2489.
		Lederer, D. E., J. S. Schuman, et al. (2003). "Analysis of macular volume in normal and glaucomatous eyes using optical coherence tomography." <u>American Journal of Ophthalmology</u> 135(6): 838-843.
		Lee, P. P., Z. W. Feldman, et al. (2003). "Longitudinal prevalence of major eye diseases." <u>Archives of Ophthalmology</u> 121(9): 1303-1310.
		Lehrer, M. S., T. T. Sun, et al. (1998). "Strategies of epithelial repair: modulation of stem cell and transit amplifying cell proliferation." <u>Journal of Cell Science</u> 111(Pt 19): 2867-75.
		Leibowitz, H. M., D. E. Krueger, et al. (1980). "The Framingham Eye Study monograph: An ophthalmological and epidemiological study of cataract, glaucoma, diabetic retinopathy, macular degeneration, and visual acuity in a general population of 2631 adults, 1973-1975." <u>Survey of Ophthalmology</u> 24(Suppl): 335-610.
		Leitgeb, R., C. K. Hitzenberger, et al. (2003). "Performance of fourier domain vs. time domain optical coherence tomography." <u>Optics Express</u> 11(8): 889-894.
TK		Leitgeb, R., L. F. Schmetterer, et al. (2002). "Flow velocity measurements by frequency domain short coherence interferometry." <u>Proc. SPIE</u> 4619: 16-21.

Examiner

Date Considered

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

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Applicant(s)  
Guillermo J. Tearney

Filing Date  
January 26, 2004

Group  
3737

IK		Leitgeb, R. A., W. Drexler, et al. (2004). "Ultrahigh resolution Fourier domain optical coherence tomography." <u>Optics Express</u> 12(10): 2156-2165.
		Leitgeb, R. A., C. K. Hitzenberger, et al. (2003). "Phase-shifting algorithm to achieve high-speed long-depth-range probing by frequency-domain optical coherence tomography." <u>Optics Letters</u> 28(22): 2201-2203.
		Leitgeb, R. A., L. Schmetterer, et al. (2003). "Real-time assessment of retinal blood flow with ultrafast acquisition by color Doppler Fourier domain optical coherence tomography." <u>Optics Express</u> 11(23): 3116-3121.
		Leitgeb, R. A., L. Schmetterer, et al. (2004). "Real-time measurement of in vitro flow by Fourier-domain color Doppler optical coherence tomography." <u>Optics Letters</u> 29 (2): 171-173.
		LeRoyBrehonnet, F. and B. LeJeune (1997). "Utilization of Mueller matrix formalism to obtain optical targets depolarization and polarization properties." <u>Progress in Quantum Electronics</u> 21(2): 109-151.
		Leske, M. C., A. M. Connell, et al. (1995). "Risk factors for open-angle glaucoma. The Barbados Eye Study. [see comments]." <u>Archives of Ophthalmology</u> 113(7): 918-24.
		Leske, M. C., A. M. Connell, et al. (2001). "Incidence of open-angle glaucoma: the Barbados Eye Studies. The Barbados Eye Studies Group. [see comments]." <u>Archives of Ophthalmology</u> 119(1): 89-95.
		Leske, M. C., A. Heijl, et al. (1999). "Early Manifest Glaucoma Trial. Design and Baseline Data." <u>Ophthalmology</u> 106(11): 2144-2153.
		Lewis, S. E., J. R. DeBoer, et al. (2005). "Sensitive, selective, and analytical improvements to a porous silicon gas sensor." <u>Sensors and Actuators B: Chemical</u> 110(1): 54-65.
		Lexer, F., C. K. Hitzenberger, et al. (1999). "Dynamic coherent focus OCT with depth- independent transversal resolution." <u>Journal of Modern Optics</u> 46(3): 541-553.
		Li, X., C. Chudoba, et al. (2000). "Imaging needle for optical coherence tomography." <u>Optics Letters</u> 25: 1520-1522.
IK		Li, X., T. H. Ko, et al. (2001). "Intraluminal fiber-optic Doppler imaging catheter for structural and functional optical coherence tomography." <u>Optics Letters</u> 26: 1906-1908.

Examiner

Date Considered

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Applicant(s)  
Guillermo J. Tearney

Filing Date  
January 26, 2004

Group  
3737

<i>T/c</i>		Liddington, M. I. and P. G. Shakespeare (1996). "Timing of the thermographic assessment of burns." <u>Burns</u> 22(1): 26-8.
		Lindmo, T., D. J. Smithies, et al. (1998). "Accuracy and noise in optical Doppler tomography studied by Monte Carlo simulation." <u>Physics in Medicine and Biology</u> 43(10): 3045-3064.
		Liu, J., X. Chen, et al. (1999). "New thermal wave aspects on burn evaluation of skin subjected to instantaneous heating." <u>IEEE Transactions on Biomedical Engineering</u> 46(4): 420-8.
		Luke, D. G., R. McBride, et al. (1995). "Polarization mode dispersion minimization in fiber-wound piezoelectric cylinders." <u>Optics Letters</u> 20(24): 2550-2552.
		MacNeill, B. D., I. K. Jang, et al. (2004). "Focal and multi-focal plaque distributions in patients with macrophage acute and stable presentations of coronary artery disease." <u>Journal of the American College of Cardiology</u> 44(5): 972-979.
		Mahgerefteh, D. and C. R. Menyuk (1999). "Effect of first-order PMD compensation on the statistics of pulse broadening in a fiber with randomly varying birefringence." <u>Ieee Photonics Technology Letters</u> 11(3): 340-342.
		Maitland, D. J. and J. T. Walsh, Jr. (1997). "Quantitative measurements of linear birefringence during heating of native collagen." <u>Lasers in Surgery &amp; Medicine</u> 20 (3): 310-8.
		Majaron, B., S. M. Srinivas, et al. (2000). "Deep coagulation of dermal collagen with repetitive Er : YAG laser irradiation." <u>Lasers in Surgery and Medicine</u> 26(2): 215-222.
		Mansuripur, M. (1991). "Effects of High-Numerical-Aperture Focusing on the State of Polarization in Optical and Magnetooptic Data-Storage Systems." <u>Applied Optics</u> 30(22): 3154-3162.
		Marshall, G. W., S. J. Marshall, et al. (1997). "The dentin substrate: structure and properties related to bonding." <u>Journal of Dentistry</u> 25(6): 441-458.
		Martin, P. (1997). "Wound healing - Aiming for perfect skin regeneration." <u>Science</u> 276 (5309): 75-81.
<i>IR</i>		Martinez, O. E. (1987). "3000 Times Grating Compressor with Positive Group-Velocity Dispersion - Application to Fiber Compensation in 1.3-1.6 Mu-M Region." <u>Ieee Journal of Quantum Electronics</u> 23(1): 59-64.

Examiner

Date Considered

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Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office		Atty. Docket No. 036140/US - 475387-00020	Serial No. 10/765,430
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		Filing Date January 26, 2004	Group 3737

IK		Martinez, O. E., J. P. Gordon, et al. (1984). "Negative Group-Velocity Dispersion Using Refraction." <u>Journal of the Optical Society of America a-Optics Image Science and Vision</u> 1(10): 1003-1006.
		McKinney, J. D., M. A. Webster, et al. (2000). "Characterization and imaging in optically scattering media by use of laser speckle and a variable-coherence source." <u>Optics Letters</u> 25(1): 4-6.
		Miglior, S., M. Casula, et al. (2001). "Clinical ability of Heidelberg retinal tomograph examination to detect glaucomatous visual field changes." <u>Ophthalmology</u> 108 (9): 1621-7.
		Milner, T. E., D. M. Goodman, et al. (1996). "Imaging laser heated subsurface chromophores in biological materials: Determination of lateral physical dimensions." <u>Physics in Medicine and Biology</u> 41(1): 31-44.
		Milner, T. E., D. M. Goodman, et al. (1995). "Depth Profiling of Laser-Heated Chromophores in Biological Tissues by Pulsed Photothermal Radiometry." <u>Journal of the Optical Society of America a-Optics Image Science and Vision</u> 12 (7): 1479-1488.
		Milner, T. E., D. J. Smithies, et al. (1996). "Depth determination of chromophores in human skin by pulsed photothermal radiometry." <u>Applied Optics</u> 35(19): 3379-3385.
		Mishchenko, M. I. and J. W. Hovenier (1995). "Depolarization of Light Backscattered by Randomly Oriented Nonspherical Particles." <u>Optics Letters</u> 20(12): 1356-&.
		Mistlberger, A., J. M. Liebmann, et al. (1999). "Heidelberg retina tomography and optical coherence tomography in normal, ocular-hypertensive, and glaucomatous eyes." <u>Ophthalmology</u> 106(10): 2027-32.
		Mitsui, T. (1999). "High-speed detection of ballistic photons propagating through suspensions using spectral interferometry." <u>Japanese Journal of Applied Physics Part 1-Regular Papers Short Notes &amp; Review Papers</u> 38(5A): 2978-2982.
		Molteno, A. C., N. J. Bosma, et al. (1999). "Otago glaucoma surgery outcome study: long-term results of trabeculectomy--1976 to 1995." <u>Ophthalmology</u> 106(9): 1742-50.
IK		Morgner, U., W. Drexler, et al. (2000). "Spectroscopic optical coherence tomography." <u>Optics Letters</u> 25(2): 111-113.

Examiner

Date Considered

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

Atty. Docket No.  
036140/US - 475387-00020

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BY APPLICANT  
(Use several sheets if necessary)**

Applicant(s)  
Guillermo J. Tearney

Filing Date  
January 26, 2004

Group  
3737

1	2	Morgner, U., F. X. Kartner, et al. (1999). "Sub-two-cycle pulses from a Kerr-lens mode-locked Ti : sapphire laser (vol 24, pg 411, 1999)." <u>Optics Letters</u> 24(13): 920-920.
		Mourant, J. R., A. H. Hielscher, et al. (1998). "Evidence of intrinsic differences in the light scattering properties of tumorigenic and nontumorigenic cells." <u>Cancer Cytopathology</u> 84(6): 366-374.
		Muller, M., J. Squier, et al. (1998). "Dispersion pre-compensation of 15 femtosecond optical pulses for high-numerical-aperture objectives." <u>Journal of Microscopy-Oxford</u> 191: 141-150.
		Muscat, S., N. McKay, et al. (2002). "Repeatability and reproducibility of corneal thickness measurements by optical coherence tomography." <u>Investigative Ophthalmology &amp; Visual Science</u> 43(6): 1791-5.
		Musch, D. C., P. R. Lichter, et al. (1999). "The Collaborative Initial Glaucoma Treatment Study. Study Design, Methods, and Baseline Characteristics of Enrolled Patients." <u>Ophthalmology</u> 106: 653-662.
		Neerken, S., Lucassen, G.W., Bisschop, M.A., Lenderink, E., Nuijs, T.A.M. (2004). "Characterization of age-related effects in human skin: A comparative study that applies confocal laser scanning microscopy and optical coherence tomography." <u>Journal of Biomedical Optics</u> 9(2): 274-281.
		Nelson, J. S., K. M. Kelly, et al. (2001). "Imaging blood flow in human port-wine stain in situ and in real time using optical Doppler tomography." <u>Archives of Dermatology</u> 137(6): 741-744.
		Newson, T. P., F. Farahi, et al. (1988). "Combined Interferometric and Polarimetric Fiber Optic Temperature Sensor with a Short Coherence Length Source." <u>Optics Communications</u> 68(3): 161-165.
		November, L. J. (1993). "Recovery of the Matrix Operators in the Similarity and Congruency Transformations - Applications in Polarimetry." <u>Journal of the Optical Society of America a-Optics Image Science and Vision</u> 10(4): 719-739.
		Oh, W. Y., S. H. Yun, et al. (2005). "Wide tuning range wavelength-swept laser with two semiconductor optical amplifiers." <u>Ieee Photonics Technology Letters</u> 17(3): 678- 680.
		Oka, K. and T. Kato (1999). "Spectroscopic polarimetry with a channeled spectrum." <u>Optics Letters</u> 24(21): 1475-1477.

Examiner

Date Considered

Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office		Atty. Docket No. 036140/US - 475387-00020	Serial No. 10/765,430
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		Filing Date January 26, 2004	Group 3737

Ex		Okugawa, T. and K. Rotate (1996). "Real-time optical image processing by synthesis of the coherence function using real-time holography." <u>Ieee Photonics Technology Letters</u> 8(2): 257-259.
		Oshima, M., R. Torii, et al. (2001). "Finite element simulation of blood flow in the cerebral artery." <u>Computer Methods in Applied Mechanics and Engineering</u> 191 (6-7): 661-671.
		Pan, Y. T., H. K. Xie, et al. (2001). "Endoscopic optical coherence tomography based on a microelectromechanical mirror." <u>Optics Letters</u> 26(24): 1966-1968.
		Parisi, V., G. Manni, et al. (2001). "Correlation between optical coherence tomography, pattern electroretinogram, and visual evoked potentials in open-angle glaucoma patients." <u>Ophthalmology</u> 108(5): 905-12.
		Park, B. H., M. C. Pierce, et al. (2005). "Real-time fiber-based multi-functional spectral-domain optical coherence tomography at 1.3 mu m." <u>Optics Express</u> 13(11): 3931-3944.
		Park, D. H., J. W. Hwang, et al. (1998). "Use of laser Doppler flowmetry for estimation of the depth of burns." <u>Plastic and Reconstructive Surgery</u> 101(6): 1516-1523.
		Pendry, J. B., A. J. Holden, et al. (1999). "Magnetism from conductors and enhanced nonlinear phenomena." <u>Ieee Transactions on Microwave Theory and Techniques</u> 47(11): 2075-2084.
		Penninckx, D. and V. Morenas (1999). "Jones matrix of polarization mode dispersion." <u>Optics Letters</u> 24(13): 875-877.
		Pierce, M. C., M. Shishkov, et al. (2005). "Effects of sample arm motion in endoscopic polarization-sensitive optical coherence tomography." <u>Optics Express</u> 13(15): 5739-5749
		Pircher, M., E. Gotzinger, et al. (2003). "Measurement and imaging of water concentration in human cornea with differential absorption optical coherence tomography." <u>Optics Express</u> 11(18): 2190-2197.
TK		Pircher, M., E. Gotzinger, et al. (2003). "Speckle reduction in optical coherence tomography by frequency compounding." <u>Journal of Biomedical Optics</u> 8(3): 565-569.

Examiner

Date Considered

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		Filing Date January 26, 2004	Group 3737

<i>TK</i>		Podoleanu, A. G., G. M. Dobre, et al. (1998). "En-face coherence imaging using galvanometer scanner modulation." <u>Optics Letters</u> 23(3): 147-149.
		Podoleanu, A. G. and D. A. Jackson (1999). "Noise analysis of a combined optical coherence tomograph and a confocal scanning ophthalmoscope." <u>Applied Optics</u> 38(10): 2116-2127.
		Podoleanu, A. G., J. A. Rogers, et al. (2000). "Three dimensional OCT images from retina and skin." <u>Optics Express</u> 7(9): 292-298.
		Podoleanu, A. G., M. Seeger, et al. (1998). "Transversal and longitudinal images from the retina of the living eye using low coherence reflectometry." <u>Journal of Biomedical Optics</u> 3(1): 12-20.
		Poole, C. D. (1988). "Statistical Treatment of Polarization Dispersion in Single-Mode Fiber." <u>Optics Letters</u> 13(8): 687-689.
		Povazay, B., K. Bizheva, et al. (2002). "Submicrometer axial resolution optical coherence tomography." <u>Optics Letters</u> 27(20): 1800-1802.
		Qi, B., A. P. Himmer, et al. (2004). "Dynamic focus control in high-speed optical coherence tomography based on a microelectromechanical mirror." <u>Optics Communications</u> 232(1-6): 123-128.
		Radhakrishnan, S., A. M. Rollins, et al. (2001). "Real-time optical coherence tomography of the anterior segment at 1310 nm." <u>Archives of Ophthalmology</u> 119(8): 1179-1185.
		Rogers, A. J. (1981). "Polarization-Optical Time Domain Reflectometry - a Technique for the Measurement of Field Distributions." <u>Applied Optics</u> 20(6): 1060-1074.
		Rollins, A. M. and J. A. Izatt (1999). "Optimal interferometer designs for optical coherence tomography." <u>Optics Letters</u> 24(21): 1484-1486.
		Rollins, A. M., R. Ung-arunyawee, et al. (1999). "Real-time in vivo imaging of human gastrointestinal ultrastructure by use of endoscopic optical coherence tomography with a novel efficient interferometer design." <u>Optics Letters</u> 24(19): 1358-1360.
<i>TK</i>		Rollins, A. M., S. Yazdanfar, et al. (2002). "Real-time in vivo colors Doppler optical coherence tomography." <u>Journal of Biomedical Optics</u> 7(1): 123-129.

Examiner

Date Considered

Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office		Atty. Docket No. 036140/US - 475387-00020	Serial No. 10/765,430
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File		Rollins, A. M., S. Yazdanfar, et al. (2000). "Imaging of human retinal hemodynamics using color Doppler optical coherence tomography." <u>Investigative Ophthalmology &amp; Visual Science</u> 41(4): S548-S548.
		Sandoz, P. (1997). "Wavelet transform as a processing tool in white-light interferometry." <u>Optics Letters</u> 22(14): 1065-1067.
		Sankaran, V., M. J. Everett, et al. (1999). "Comparison of polarized-light propagation in biological tissue and phantoms." <u>Optics Letters</u> 24(15): 1044-1046.
		Sankaran, V., J. T. Walsh, et al. (2000). "Polarized light propagation through tissue phantoms containing densely packed scatterers." <u>Optics Letters</u> 25(4): 239-241
		Sarunic, M. V., M. A. Choma, et al. (2005). "Instantaneous complex conjugate resolved spectral domain and swept-source OCT using 3x3 fiber couplers." <u>Optics Express</u> 13(3): 957-967.
		Sathyam, U. S., B. W. Colston, et al. (1999). "Evaluation of optical coherence quantitation of analytes in turbid media by use of two wavelengths." <u>Applied Optics</u> 38(10): 2097-2104
		Schmitt, J. M. (1997). "Array detection for speckle reduction in optical coherence microscopy." <u>Physics in Medicine and Biology</u> 42(7): 1427-1439.
		Schmitt, J. M. (1999). "Optical coherence tomography (OCT): A review." <u>Ieee Journal of Selected Topics in Quantum Electronics</u> 5(4): 1205-1215.
		Schmitt, J. M. and A. Knutel (1997). "Model of optical coherence tomography of heterogeneous tissue." <u>Journal of the Optical Society of America a-Optics Image Science and Vision</u> 14(6): 1231-1242.
		Schmitt, J. M., S. L. Lee, et al. (1997). "An optical coherence microscope with enhanced resolving power in thick tissue." <u>Optics Communications</u> 142(4-6): 203-207.
		Schmitt, J. M., S. H. Xiang, et al. (1998). "Differential absorption imaging with optical coherence tomography." <u>Journal of the Optical Society of America a-Optics Image Science and Vision</u> 15(9): 2288-2296.

Examiner

Date Considered

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**INFORMATION DISCLOSURE STATEMENT  
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Applicant(s)  
Guillermo J. Tearney

Filing Date  
January 26, 2004

Group  
3737

<i>dk</i>		Schmitt, J. M., S. H. Xiang, et al. (1999). "Speckle in optical coherence tomography." <u>Journal of Biomedical Optics</u> 4(1): 95-105.
		Schmitt, J. M., M. J. Yadlowsky, et al. (1995). "Subsurface Imaging of Living Skin with Optical Coherence Microscopy." <u>Dermatology</u> 191(2): 93-98.
		Shi, H., J. Finlay, et al. (1997). "Multiwavelength 10-GHz picosecond pulse generation from a single-stripe semiconductor diode laser." <u>Ieee Photonics Technology Letters</u> 9(11): 1439-1441.
		Shi, H., I. Nitta, et al. (1999). "Demonstration of phase correlation in multiwavelength mode-locked semiconductor diode lasers." <u>Optics Letters</u> 24(4): 238-240.
		Simon, R. (1982). "The Connection between Mueller and Jones Matrices of Polarization Optics." <u>Optics Communications</u> 42(5): 293-297.
		Smith, P. J. M., E.M.; Taylor, C.M.; Selviah, D.R.; Day, S.E.; Commander, L.G. "Variable-Focus Microlenses as a Potential Technology for Endoscopy."
		Smithies, D. J., T. Lindmo, et al. (1998). "Signal attenuation and localization in optical coherence tomography studied by Monte Carlo simulation." <u>Physics in Medicine and Biology</u> 43(10): 3025-3044.
		Sorin, W. V. and D. F. Gray (1992). "Simultaneous Thickness and Group Index Measurement Using Optical Low-Coherence Reflectometry." <u>Ieee Photonics Technology Letters</u> 4(1): 105-107.
		Sticker, M., C. K. Hitzenberger, et al. (2001). "Quantitative differential phase measurement and imaging in transparent and turbid media by optical coherence tomography." <u>Optics Letters</u> 26(8): 518-520.
		Sticker, M., M. Pircher, et al. (2002). "En face imaging of single cell layers by differential phase-contrast optical coherence microscopy." <u>Optics Letters</u> 27(13): 1126-1128.
<i>↓</i>		Stoller, P., B. M. Kim, et al. (2002). "Polarization-dependent optical second-harmonic imaging of a rat-tail tendon." <u>Journal of Biomedical Optics</u> 7(2): 205-214.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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BY APPLICANT  
(Use several sheets if necessary)**

Applicant(s)  
Guillermo J. Tearney

Filing Date  
January 26, 2004

Group  
3737

Ele		Sun, C. S. (2003). "Multiplexing of fiber-optic acoustic sensors in a Michelson interferometer configuration." <u>Optics Letters</u> 28(12): 1001-1003.
1		Swanson, E. A., J. A. Izatt, et al. (1993). "In-Vivo Retinal Imaging by Optical Coherence Tomography." <u>Optics Letters</u> 18(21): 1864-1866.
		Takada, K., A. Himeno, et al. (1991). "Phase-Noise and Shot-Noise Limited Operations of Low Coherence Optical-Time Domain Reflectometry." <u>Applied Physics Letters</u> 59(20): 2483-2485.
		Takenaka, H. (1973). "Unified Formalism for Polarization Optics by Using Group-Theory I (Theory)." <u>Japanese Journal of Applied Physics</u> 12(2): 226-231.
		Tanno, N., T. Ichimura, et al. (1994). "Optical Multimode Frequency-Domain Reflectometer." <u>Optics Letters</u> 19(8): 587-589.
		Tan-no, N., T. Ichimura, et al. (1994). "Optical Multimode Frequency-Domain Reflectometer." <u>Optics Letters</u> 19(8): 587-589.
		Targowski, P., M. Wojtkowski, et al. (2004). "Complex spectral OCT in human eye imaging in vivo." <u>Optics Communications</u> 229(1-6): 79-84.
		Tearney, G. J., S. A. Boppart, et al. (1996). "Scanning single-mode fiber optic catheter- endoscope for optical coherence tomography (vol 21, pg 543, 1996)." <u>Optics Letters</u> 21(12): 912-912.
		Tearney, G. J., B. E. Bouma, et al. (1996). "Rapid acquisition of in vivo biological images by use of optical coherence tomography." <u>Optics Letters</u> 21(17): 1408-1410.
		Tearney, G. J., B. E. Bouma, et al. (1997). "In vivo endoscopic optical biopsy with optical coherence tomography." <u>Science</u> 276(5321): 2037-2039.
		Tearney, G. J., M. E. Brezinski, et al. (1996). "Catheter-based optical imaging of a human coronary artery." <u>Circulation</u> 94(11): 3013-3013.
↓		Tearney, G. J., M. E. Brezinski, et al. (1997). "In vivo endoscopic optical biopsy with optical coherence tomography." <u>Science</u> 276(5321): 2037-9.

Examiner

Date Considered

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

Atty. Docket No.  
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BY APPLICANT  
(Use several sheets if necessary)**

Applicant(s)  
Guillermo J. Tearney

Filing Date  
January 26, 2004

Group  
3737

Tk		Tearney, G. J., M. E. Brezinski, et al. (1997). "Optical biopsy in human gastrointestinal tissue using optical coherence tomography." <u>American Journal of Gastroenterology</u> 92(10): 1800-1804.
		Tearney, G. J., M. E. Brezinski, et al. (1995). "Determination of the refractive index of highly scattering human tissue by optical coherence tomography." <u>Optics Letters</u> 20(21): 2258-2260.
		Tearney, G. J., I. K. Jang, et al. (2000). "Porcine coronary imaging in vivo by optical coherence tomography." <u>Acta Cardiologica</u> 55(4): 233-237.
		Tearney, G. J., R. H. Webb, et al. (1998). "Spectrally encoded confocal microscopy." <u>Optics Letters</u> 23(15): 1152-1154.
		Tearney, G. J., H. Yabushita, et al. (2003). "Quantification of macrophage content in atherosclerotic plaques by optical coherence tomography." <u>Circulation</u> 107(1): 113-119.
		Tower, T. T. and R. T. Tranquillo (2001). "Alignment maps of tissues: I. Microscopic elliptical polarimetry." <u>Biophysical Journal</u> 81(5): 2954-2963.
		Tower, T. T. and R. T. Tranquillo (2001). "Alignment maps of tissues: II. Fast harmonic analysis for imaging." <u>Biophysical Journal</u> 81(5): 2964-2971.
		Troy, T. L. and S. N. Thennadil (2001). "Optical properties of human skin in the near infrared wavelength range of 1000 to 2200 nm." <u>Journal of Biomedical Optics</u> 6 (2): 167-176.
		Vabre, L., A. Dubois, et al. (2002). "Thermal-light full-field optical coherence tomography." <u>Optics Letters</u> 27(7): 530-532.
		Vakhtin, A. B., D. J. Kane, et al. (2003). "Common-path interferometer for frequency-domain optical coherence tomography." <u>Applied Optics</u> 42(34): 6953-6958.
		Vakhtin, A. B., K. A. Peterson, et al. (2003). "Differential spectral interferometry: an imaging technique for biomedical applications." <u>Optics Letters</u> 28(15): 1332-1334.
↓		Vakoc, B. J., S. H. Yun, et al. (2005). "Phase-resolved optical frequency domain imaging." <u>Optics Express</u> 13(14): 5483-5493.

Examiner

Date Considered

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

Atty. Docket No.  
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Applicant(s)  
Guillermo J. Tearney

Filing Date  
January 26, 2004

Group  
3737

TK		van Leeuwen, T. G., M. D. Kulkarni, et al. (1999). "High-flow-velocity and shear-rate imaging by use of color Doppler optical coherence tomography." <u>Optics Letters</u> 24(22): 1584-1586.
		Vansteenkiste, N., P. Vignolo, et al. (1993). "Optical Reversibility Theorems for Polarization - Application to Remote-Control of Polarization." <u>Journal of the Optical Society of America a-Optics Image Science and Vision</u> 10(10): 2240-2245.
		Vargas, O., E. K. Chan, et al. (1999). "Use of an agent to reduce scattering in skin." <u>Lasers in Surgery and Medicine</u> 24(2): 133-141.
		Wang, R. K. (1999). "Resolution improved optical coherence-gated tomography for imaging through biological tissues." <u>Journal of Modern Optics</u> 46(13): 1905-1912.
		Wang, X. J., T. E. Milner, et al. (1997). "Measurement of fluid-flow-velocity profile in turbid media by the use of optical Doppler tomography." <u>Applied Optics</u> 36(1): 144-149.
		Wang, X. J., T. E. Milner, et al. (1995). "Characterization of Fluid-Flow Velocity by Optical Doppler Tomography." <u>Optics Letters</u> 20(11): 1337-1339.
		Wang, Y. M., J. S. Nelson, et al. (2003). "Optimal wavelength for ultrahigh-resolution optical coherence tomography." <u>Optics Express</u> 11(12): 1411-1417.
		Wang, Y. M., Y. H. Zhao, et al. (2003). "Ultrahigh-resolution optical coherence tomography by broadband continuum generation from a photonic crystal fiber." <u>Optics Letters</u> 28(3): 182-184.
		Watkins, L. R., S. M. Tan, et al. (1999). "Determination of interferometer phase distributions by use of wavelets." <u>Optics Letters</u> 24(13): 905-907.
		Wetzel, J. (2001). "Optical coherence tomography in dermatology: a review." <u>Skin Research and Technology</u> 7(1): 1-9.
		Wentworth, R. H. (1989). "Theoretical Noise Performance of Coherence-Multiplexed Interferometric Sensors." <u>Journal of Lightwave Technology</u> 7(6): 941-956.
		Westphal, V., A. M. Rollins, et al. (2002). "Correction of geometric and refractive image distortions in optical coherence tomography applying Fermat's principle." <u>Optics Express</u> 10(9): 397-404.

Examiner

Date Considered

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

Atty. Docket No.  
036140/US - 475387-00020

Serial No.  
10/765,430

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT  
(Use several sheets if necessary)**

Applicant(s)  
Guillermo J. Tearney

Filing Date  
January 26, 2004

Group  
3737

Ek		Westphal, V., S. Yazdanfar, et al. (2002). "Real-time, high velocity-resolution color Doppler optical coherence tomography." <u>Optics Letters</u> 27(1): 34-36.
		Williams, P. A. (1999). "Rotating-wave-plate Stokes polarimeter for differential group delay measurements of polarization-mode dispersion." <u>Applied Optics</u> 38(31): 6508-6515.
		Wojtkowski, M., T. Bajraszewski, et al. (2003). "Real-time in vivo imaging by high-speed spectral optical coherence tomography." <u>Optics Letters</u> 28(19): 1745-1747.
		Wojtkowski, M., A. Kowalczyk, et al. (2002). "Full range complex spectral optical coherence tomography technique in eye imaging." <u>Optics Letters</u> 27(16): 1415-1417.
		Wojtkowski, M., R. Leitgeb, et al. (2002). "In vivo human retinal imaging by Fourier domain optical coherence tomography." <u>Journal of Biomedical Optics</u> 7(3): 457-463.
		Wojtkowski, M., R. Leitgeb, et al. (2002). "Fourier domain OCT imaging of the human eye in vivo." <u>Proc. SPIE</u> 4619: 230-236.
		Wojtkowski, M., V. J. Srinivasan, et al. (2004). "Ultrahigh-resolution, high-speed, Fourier domain optical coherence tomography and methods for dispersion compensation." <u>Optics Express</u> 12(11): 2404-2422.
		Wong, B. J. F., Y. H. Zhao, et al. (2004). "Imaging the internal structure of the rat cochlea using optical coherence tomography at 0.827 $\mu$ m and 1.3 $\mu$ m." <u>Otolaryngology-Head and Neck Surgery</u> 130(3): 334-338.
		Yabushita, H. B., B.E.; Houser, S.L.; Aretz, H.T.; Jang, I.; Schlendorf, K.H.; Kauffman, C.R.; Shishkov, M.; Halpern, E.F.; Tearney, G.J. "Measurement of Thin Fibrous Caps in Atherosclerotic Plaques by Optical Coherence Tomography."
		Yang, C., A. Wax, et al. (2001). "Phase-dispersion optical tomography." <u>Optics Letters</u> 26(10): 686-688.
		Yang, C., A. Wax, et al. (2001). "Phase-referenced interferometer with subwavelength and subhertz sensitivity applied to the study of cell membrane dynamics." <u>Optics Letters</u> 26(16): 1271-1273.
Ek		Yang, C. H., A. Wax, et al. (2001). "Phase-dispersion optical tomography." <u>Optics Letters</u> 26(10): 686-688.

Examiner

Date Considered

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)</b>	Atty. Docket No. 036140/US - 475387-00020	Serial No. 10/765,430
	Applicant(s) Guillermo J. Tearney	
	Filing Date January 26, 2004	Group 3737

IK		Yang, C. H., A. Wax, et al. (2000). "Interferometric phase-dispersion microscopy." <u>Optics Letters</u> 25(20): 1526-1528.
		Yang, V. X. D., M. L. Gordon, et al. (2002). "Improved phase-resolved optical Doppler tomography using the Kasai velocity estimator and histogram segmentation." <u>Optics Communications</u> 208(4-6): 209-214.
		Yang, V. X. D., M. L. Gordon, et al. (2003). "High speed, wide velocity dynamic range Doppler optical coherence tomography (Part I): System design, signal processing, and performance." <u>Optics Express</u> 11(7): 794-809.
		Yang, V. X. D., M. L. Gordon, et al. (2003). "High speed, wide velocity dynamic range Doppler optical coherence tomography (Part II): Imaging in vivo cardiac dynamics of <i>Xenopus laevis</i> ." <u>Optics Express</u> 11(14): 1650-1658.
		Yang, V. X. D., M. L. Gordon, et al. (2003). "High speed, wide velocity dynamic range Doppler optical coherence tomography (Part III): in vivo endoscopic imaging of blood flow in the rat and human gastrointestinal tracts." <u>Optics Express</u> 11(19): 2416-2424.
		Yang, V. X. D., B. Qi, et al. (2003). "In vivo feasibility of endoscopic catheter-based Doppler optical coherence tomography." <u>Gastroenterology</u> 124(4): A49-A50.
		Yao, G. and L. H. V. Wang (2000). "Theoretical and experimental studies of ultrasound-modulated optical tomography in biological tissue." <u>Applied Optics</u> 39(4): 659-664.
		Yazdanfar, S. and J. A. Izatt (2002). "Self-referenced Doppler optical coherence tomography." <u>Optics Letters</u> 27(23): 2085-2087.
		Yazdanfar, S., M. D. Kulkarni, et al. (1997). "High resolution imaging of in vivo cardiac dynamics using color Doppler optical coherence tomography." <u>Optics Express</u> 1 (13) : 424-431.
		Yazdanfar, S., A. M. Rollins, et al. (2000). "Imaging and velocimetry of the human retinal circulation with color Doppler optical coherence tomography." <u>Optics Letters</u> 25(19): 1448-1450.
IK		Yazdanfar, S., A. M. Rollins, et al. (2000). "Noninvasive imaging and velocimetry of human retinal blood flow using color Doppler optical coherence tomography." <u>Investigative Ophthalmology &amp; Visual Science</u> 41(4): S548-S548.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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10/765,430

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(Use several sheets if necessary)**

Applicant(s)  
Guillermo J. Tearney

Filing Date  
January 26, 2004

Group  
3737

IK		Yazdanfar, S., A. M. Rollins, et al. (2003). "In vivo imaging of human retinal flow dynamics by color Doppler optical coherence tomography." <u>Archives of Ophthalmology</u> 121(2): 235-239.
		Yazdanfar, S., C. H. Yang, et al. (2005). "Frequency estimation precision in Doppler optical coherence tomography using the Cramer-Rao lower bound." <u>Optics Express</u> 13(2): 410-416.
		Yun, S. H., C. Boudoux, et al. (2004). "Extended-cavity semiconductor wavelength- swept laser for biomedical imaging." <u>Ieee Photonics Technology Letters</u> 16(1): 293-295.
		Yun, S. H., C. Boudoux, et al. (2003). "High-speed wavelength-swept semiconductor laser with a polygon-scanner-based wavelength filter." <u>Optics Letters</u> 28(20): 1981-1983.
		Yun, S. H., G. J. Tearney, et al. (2004). "Pulsed-source and swept-source spectral- domain optical coherence tomography with reduced motion artifacts." <u>Optics Express</u> 12(23): 5614-5624.
		Yun, S. H., G. J. Tearney, et al. (2004). "Removing the depth-degeneracy in optical frequency domain imaging with frequency shifting." <u>Optics Express</u> 12(20): 4822-4828.
		Yun, S. H., G. J. Tearney, et al. (2004). "Motion artifacts in optical coherence tomography with frequency-domain ranging." <u>Optics Express</u> 12(13): 2977-2998.
		Zhang, J., J. S. Nelson, et al. (2005). "Removal of a mirror image and enhancement of the signal-to-noise ratio in Fourier-domain optical coherence tomography using an electro-optic phase modulator." <u>Optics Letters</u> 30(2): 147-149.
		Zhang, Y., M. Sato, et al. (2001). "Numerical investigations of optimal synthesis of several low coherence sources for resolution improvement." <u>Optics Communications</u> 192(3-6): 183-192.
		Zhang, Y., M. Sato, et al. (2001). "Resolution improvement in optical coherence tomography by optimal synthesis of light-emitting diodes." <u>Optics Letters</u> 26(4): 205-207.
IK		Zhao, Y., Z. Chen, et al. (2002). "Real-time phase-resolved functional optical coherence tomography by use of optical Hilbert transformation." <u>Optics Letters</u> 27(2): 98-100.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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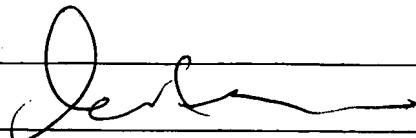
Filing Date  
January 26, 2004

Group  
3737

Elk		Zhao, Y. H., Z. P. Chen, et al. (2000). "Doppler standard deviation imaging for clinical monitoring of in vivo human skin blood flow." <u>Optics Letters</u> 25(18): 1358-1360.
Ik		Zhao, Y. H., Z. P. Chen, et al. (2000). "Phase-resolved optical coherence tomography and optical Doppler tomography for imaging blood flow in human skin with fast scanning speed and high velocity sensitivity." <u>Optics Letters</u> 25(2): 114-116.
Ik		Zhou, D., P. R. Prucnal, et al. (1998). "A widely tunable narrow linewidth semiconductor fiber ring laser." <u>IEEE Photonics Technology Letters</u> 10(6): 781-783.
Ik		Zuluaga, A. F. and R. Richards-Kortum (1999). "Spatially resolved spectral interferometry for determination of subsurface structure." <u>Optics Letters</u> 24(8): 519-521.
Ik		Zvyagin, A. V., J. B. FitzGerald, et al. (2000). "Real-time detection technique for Doppler optical coherence tomography." <u>Optics Letters</u> 25(22): 1645-1647.

4822-7187-3792\1

Examiner



Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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(REV. 2-82) Patent and Trademark Office

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036140/US - 475387-00020

Serial No.  
10/765,430

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Applicant(s)  
Guillermo J. Tearney et al.

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Group  
3737

**U.S. PATENT DOCUMENTS**

*Exam. Init.		Document No.								Date	Name	Class	Subclass	Filing Date if Appropriate
/IK/		6	2	4	9	3	4	9		June 19, 2001	Lauer*****			
/IK/	2002	0	0	8	5	2	0	9		July 4, 2002	Mittleman et al. *****			
/IK/		7	0	0	6	2	3	1		February 28, 2006	Ostrovsky et al. *****			
/IK/		6	1	3	4	0	0	3		October 17, 2000	Tearney et al. *****			

\*\*\*\*\* References cited in Office Action dated December 6, 2006 for U.S. Patent Application No. 10/997,789

\*\*\*\*\* References cited in Office Action dated December 18, 2006 for U.S. Patent Application No. 10/501,276

**FOREIGN PATENT DOCUMENT**

		Document No.								Date	Country	Class	SubClass	Translator Yes No

**OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)**

/IK/			Copy of Office Action dated December 6, 2006 for U.S. Patent Application No. 10/997,789											
/IK/			Elliott, K. H. "The use of commercial CCD cameras as linear detectors in the physics undergraduate teaching laboratory", European Journal of Physics 19, 1998, pages 107-117 *****											
/IK/			Lauer, V. "New approach to optical diffraction tomography yielding a vector equation of diffraction tomography and a novel tomographic microscope", Journal of Microscopy Vol. 205, Issue 2, 2002, pages 165-176 *****											
/IK/			Yu, P. et al. "Imaging of tumor necroses using full-frame optical coherence imaging", Proceedings of SPIE Vol. 4956, 2003, pages 34-41*****											

Examiner

Date Considered

/Iman Kholdebarin/

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Applicant(s)  
Guillermo J. Tearney et al.

Filing Date  
January 26, 2004

Group  
3737

/IK/		Zhao, Y. et al. "Three-dimensional reconstruction of in vivo blood vessels in human skin using phase-resolved optical Doppler tomography", IEEE Journal of Selected Topics in Quantum Electronics 7.6 (2001): 931-935*****
/IK/		Copy of Office Action dated December 18, 2006 for U.S. Patent Application No. 10/501,276
/IK/		Devesa, Susan S. et al. (1998) "Changing Patterns in the Incidence of Esophageal and Gastric Carcinoma in the United States." <u>American Cancer Society</u> Vol. 83, No. 10 pp. 2049-2053
/IK/		Barr, H et al. (2005) "Endoscopic Therapy for Barrett's Oesophagus" <u>Gut</u> Vol. 54:875-884
/IK/		Johnston, Mark H. (2005) "Technology Insight: Ablative Techniques for Barrett's Esophagus – Current and Emerging Trends" <u>www.Nature.com/clinicalpractice/gasthep</u>
/IK/		Falk, Gary W. et al. (1997) "Surveillance of Patients with Barrett's Esophagus for Dysplasia and Cancer with Ballon Cytology" <u>Gastroenterology</u> Vol. 112, pages 1787-1797
/IK/		Sepchler, Stuart Jon. (1997) "Barrett's Esophagus: Should We Brush off this Balloning Problem?" <u>Gastroenterology</u> Vol 112, pages 2138-2152
/IK/		Froehly, J. et al. (2003) "Multiplexed 3D Imaging Using Wavelength Encoded Spectral Interferometry: A Proof of Principle" <u>Optics Communications</u> Vol 222, pages 127-136
/IK/		Kubba A.K. et al. (1999) "Role of p53 Assessment in Management of Barrett's Esophagus" <u>Digestive Disease and Sciences</u> Vol. 44, No 4. pages 659-667
/IK/		Reid, Brian J. (2001) "p53 and Neoplastic Progression in Barrett's Esophagus" <u>The American Journal of Gastroenterology</u> Vol. 96, No 5, pages 1321-1323
/IK/		Sharma, P. et al. (2003) "Magnification Chromoendoscopy for the Detection of Intestinal Metaplasia and Dysplasia in Barrett's Oesophagus" <u>Gut</u> Vol. 52, pages 24-27
/IK/		Kuipers E.J et al. (2005) "Diagnostic and Therapeutic Endoscopy" <u>Journal of Surgical Oncology</u> Vol. 92, pages 203-209
/IK/		Georgakoudi, Irene et al. (2001) "Fluorescence, Reflectance, and Light-Scattering Spectroscopy for Evaluating Dysplasia in Patients with Barrett's Esophagus" <u>Gastroenterology</u> Vol. 120, pages 1620-1629
/IK/		Adrain, Alyn L. et al. (1997) "High-Resolution Endoluminal Sonography is a Sensitive Modality for the Identification of Barrett's Meaplasia" <u>Gastrointestinal Endoscopy</u> Vol. 46, No. 2, pages 147-151

Examiner /Iman Kholdebarin/ Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

Atty. Docket No.  
036140/US - 475387-00020

Serial No.  
10/765,430

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**  
(Use several sheets if necessary)

Applicant(s)  
Guillermo J. Tearney et al.

Filing Date  
January 26, 2004

Group  
3737

/IK/		Canto, Marcia Irene et al (1999) "Vital Staining and Barrett's Esophagus" <u>Gastrointestinal Endoscopy</u> Vol. 49, No. 3, part 2, pages 12-16
/IK/		Evans, John A. et al. (2006) "Optical Coherence Tomography to Identify Intramucosal Carcinoma and High-Grade Dysplasia in Barrett's Esophagus" <u>Clinical Gastroenterology and Hepatology</u> Vol. 4, pages 38-3
/IK/		Poneros, John M. et al. (2001) "Diagnosis of Specialized Intestinal Metaplasia by Optical Coherence Tomography" <u>Gastroenterology</u> Vol. 120, pages 7-12
/IK/		Ho, W. Y. et al. (2005) "115 KHz Tuning Repetition Rate Ultrahigh-Speed Wavelength-Swept Semiconductor Laser" <u>Optics Letters</u> Vol. 30, No. 23, pages 3159-3161
/IK/		Brown, Stanley B. et al. (2004) "The Present and Future Role of Photodynamic Therapy in Cancer Treatment" <u>The Lancet Oncology</u> Vol. 5, pages 497-508
/IK/		Boogert, Jolanda Van Den et al. (1999) "Endoscopic Ablation Therapy for Barrett's Esophagus with High-Grade Dysplasia: A Review" <u>The American Journal of Gastroenterology</u> Vol. 94, No. 5, pages 1153-1160
/IK/		Sampliner, Richard E. et al. (1996) "Reversal of Barrett's Esophagus with Acid Suppression and Multipolar Electrocoagulation: Preliminary Results" <u>Gastrointestinal Endoscopy</u> Vol. 44, No. 5, pages 532-535
/IK/		Sampliner, Richard E. (2004) "Endoscopic Ablative Therapy for Barrett's Esophagus: Current Status" <u>Gastrointestinal Endoscopy</u> Vol. 59, No. 1, pages 66-69
/IK/		Soetikno, Roy M. et al. (2003) "Endoscopic Mucosal resection" <u>Gastrointestinal Endoscopy</u> Vol. 57, No. 4, pages 567-579
/IK/		Ganz, Robert A. et al. (2004) "Complete Ablation of Esophageal Epithelium with a Balloon-based Bipolar Electrode: A Phased Evaluation in the Porcine and in the Human Esophagus" <u>Gastrointestinal Endoscopy</u> Vol. 60, No. 6, pages 1002-1010
/IK/		Pfefer, Jorje et al. (2006) "Performance of the Aer-O-Scope, A Pneumatic, Self Propelling, Self Navigating Colonoscope in Animal Experiments" <u>Gastrointestinal Endoscopy</u> Vol. 63, No. 5, pages AB223
/IK/		Overholt, Bergein F. et al. (1999) "Photodynamic Therapy for Barrett's Esophagus: Follow-Up in 100 Patients" <u>Gastrointestinal Endoscopy</u> Vol. 49, No. 1, pages 1-7
/IK/		Vogel, Alfred et al. (2003) "Mechanisms of Pulsed Laser Ablation of Biological Tissues" <u>American Chemical Society</u> Vol. 103, pages 577-644

Examiner

Date Considered

/Iman Kholdebarin/

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office		Atty. Docket No. 036140/US - 475387-00020	Serial No. 10/765,430
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)</b>		Applicant(s) Guillermo J. Tearney et al.	
		Filing Date January 26, 2004	Group 3737

/IK/		McKenzie, A. L. (1990) "Physics of Thermal Processes in Laser-Tissue Interaction" <u>Phys. Med. Biol.</u> Vol. 35, No. 9, pages 1175-1209
/IK/		Anderson, R. Rox et al. (1983) "Selective Photothermolysis" Precise Microsurgery by Selective Absorption of Pulsed Radiation" <u>Science</u> Vol. 220, No 4596, pages 524-527
/IK/		Jacques, Steven L. (1993) "Role of Tissue Optics and Pulse Duration on Tissue Effects During High-Power Laser Irradiation" <u>Applied Optics</u> Vol. 32, No. 13, pages 2447-2454
/IK/		Nahen, Kester et al. (1999) "Investigations on Acoustic On-Line Monitoring of IR Laser Ablation of Burned Skin" <u>Lasers in Surgery and Medicine</u> Vol. 25, pages 69-78
/IK/		Jerath, Maya R. et al. (1993) "Calibrated Real-Time Control of Lesion Size Based on Reflectance Images" <u>Applied Optics</u> Vol. 32, No. 7, pages 1200-1209
/IK/		Jerath, Maya R. et al (1992) "Dynamic Optical Property Changes: Implications for Reflectance Feedback Control of Photocoagulation" <u>Journal of Photochemical, Photobiology. B: Biol</u> Vol. 16, pages 113-126
/IK/		Deckelbaum, Lawrence I. (1994) "Coronary Laser Angioplasty" <u>Lasers in Surgery and Medicine</u> Vol. 14, pages 101-110
/IK/		Kim, B.M. et al. (1998) "Optical Feedback Signal for Ultrashort Laser Pulse Ablation of Tissue" <u>Applied Surface Science</u> Vol. 127-129, pages 857-862
/IK/		Brinkman, Ralf et al. (1996) "Analysis of Cavitation Dynamics During Pulsed Laser Tissue Ablation by Optical On-Line Monitoring" <u>IEEE Journal of Selected Topics in Quantum Electronics</u> Vol. 2, No. 4, pages 826-835
/IK/		Whelan, W.M. et al. (2005) "A novel Strategy for Monitoring Laser Thermal Therapy Based on Changes in Optothermal Properties of Heated Tissues" <u>International Journal of Thermophysics</u> Vol. 26., No 1, pages 233-241
/IK/		Thomsen, Sharon et al. (1990) "Microscopic Correlates of Macroscopic Optical Property Changes During Thermal Coagulation of Myocardium" <u>SPIE</u> Vol. 1202, pages 2-11
/IK/		Khan, Misban Huzaira et al. (2005) "Intradermally Focused Infrared Laser Pulses: Thermal Effects at Defined Tissue Depths" <u>Lasers in Surgery and Medicine</u> Vol. 36, pages 270-280
/IK/		Neumann, R.A. et al. (1991) "Enzyme Histochemical Analysis of Cell Viability After Argon Laser-Induced Coagulation Necrosis of the Skin" <u>Journal of the American Academy of Dermatology</u> Vol. 25, No. 6, pages 991-998
/IK/		Nadkarni, Seemantini K. et al (2005) "Characterization of Atherosclerotic Plaques by Laser Speckle Imaging" <u>Circulation</u> Vol. 112, pages 885-892

Examiner	/Iman Kholdebarin/	Date Considered
----------	--------------------	-----------------

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT  
(Use several sheets if necessary)**

Atty. Docket No.  
036140/US - 475387-00020

Serial No.  
10/765,430

Applicant(s)  
Guillermo J. Tearney et al.

Filing Date  
January 26, 2004

Group  
3737

/IK/		Zimnyakov, Dmitry A. et al (2002) "Speckle-Contrast Monitoring of Tissue Thermal Modification" <u>Applied Optics</u> Vol. 41, No. 28, pages 5989-5996
/IK/		Morelli, J.G., et al (1986) "Tunable Dye Laser (577 nm) Treatment of Port Wine Stains" <u>Lasers in Surgery and Medicine</u> Vol. 6, pages 94-99
/IK/		French, P.M.W. et al. (1993) "Continuous-wave Mode-Locked Cr <sup>4+</sup> : YAG Laser" <u>Optics Letters</u> Vol. 18, No. 1, pages 39-41
/IK/		Sennaroglu, Alphan et al. (1995) "Efficient Continuous-Wave Chromium-Doped YAG Laser" <u>Journal of Optical Society of America</u> Vol. 12, No. 5, pages 930-937
/IK/		Bouma, B et al. (1994) "Hybrid Mode Locking of a Flash-Lamp-Pumped Ti: Al <sub>2</sub> O <sub>3</sub> Laser" <u>Optics Letters</u> Vol. 19, No. 22, pages 1858-1860
/IK/		Bouma, B et al. (1995) "High Resolution Optical Coherence Tomography Imaging Using a Mode-Locked Ti: Al <sub>2</sub> O <sub>3</sub> Laser Source" <u>Optics Letters</u> Vol. 20, No. 13, pages 1486-1488
/IK/		Fernández, Cabrera Delia et al. "Automated detection of retinal layer structures on optical coherence tomography images", <u>Optics Express</u> Vol. 13, No. 25, October 4, 2005, pages 10200-10216
/IK/		Ishikawa, Hiroshi et al. "Macular Segmentation with optical coherence tomography", <u>Investigative Ophthalmology &amp; Visual Science</u> , Vol. 46, No. 6, June 2005, pages 2012-2017

4823-3667-6865\1

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT  
(Use several sheets if necessary)**

Atty. Docket No.  
036140/US - 475387-00020

Serial No.  
10/765,430

Applicant(s)  
Guillermo J. Tearney et al.

Filing Date  
January 26, 2004

Group No.  
3737

**U.S. PATENT DOCUMENTS**

*Exam. Init.		Document No.							Date	Name	Class	Subclass	Filing Date if Appropriate
/IK/		6	3	8	4	9	1	5	May 7, 2002	Everett et al. ****			
		6	6	1	5	0	7	1	September 2, 2003	Casscells, III et al. ****			
	2003	0	1	7	1	6	9	1	September 11, 2003	Casscells, III et al. ****			
		6	2	7	2	3	7	6	August 7, 2001	Marcu et al. ****			
		5	8	6	7	2	6	8	February 2, 1999	Gelikonov et al.			
		6	1	7	4	2	9	1	January 16, 2001	McMahon et al.**			
		5	8	9	2	5	8	3	April 6, 1999	Li*****			
		6	0	9	1	4	9	6	July 18, 2000	Hill*****			
		5	8	0	1	8	2	6	September 1, 1998	Williams*****			
		5	4	5	4	8	0	7	October 3, 1995	Lennox et al.*****			
		5	8	4	3	0	5	2	December 1, 1998	Benja- Athon*****			
		6	1	3	4	0	3	3	October 17, 2000	Bergano et al.*****			
	2005	0	0	1	8	2	0	1	January 27, 2005	De Boer *****			
/IK/		6	5	5	6	8	5	3	April 29, 2003	Cabib et al. *****			

**FOREIGN PATENT DOCUMENT**

		Document No.							Date	Country	Class	SubClass	Translator Yes No

Examiner /Iman Kholdebarin/ Date Considered 02/27/2007

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office	Atty. Docket No. 036140/US - 475387-00020	Serial No. 10/765,430
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)</b>	Applicant(s) Guillermo J. Tearney et al.	
	Filing Date January 26, 2004	Group No. 3737

\*\* References cited in International Search Report  
 \*\*\*\* References cited in Office Action dated August 24, 2006 for U.S. Patent Application No. 10/137,749  
 \*\*\*\*\*References cited in Office Action dated November 13, 2006 for U.S. Patent Application No. 10/501,268  
 \*\*\*\*\* References cited in Office Action dated November 20, 2006 for U.S. Patent Application No. 09/709,162

**OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)**

/IK/		Copy of Office Action dated August 24, 2006 for U.S. Patent Application No. 10/137,749
		Barry Cense et al., "Spectral-domain polarization-sensitive optical coherence tomography at 850nm", Coherence Domain Optical Methods and Optical Coherence Tomography in Biomedicine IX, 2005, pages 159-162 **
		A. Ymeti et al., "Integration of microfluidics with a four-channel integrated optical Young interferometer immunosensor", Biosensors and Bioelectronics, Elsevier Science Publishers, 2005, pages 1417-1421 **
		PCT International Search Report for Application No. PCT/US2006/018865 filed May 5, 2006
		International Written Opinion for International Patent application No. PCT/US2006/018865 filed May 5, 2006
		John M. Poneros, "Diagnosis of Barrett's esophagus using optical coherence tomography", Gastrointestinal Endoscopy clinics of North America", 14 (2004) pages 573-588 **
		P.F. Escobar et al., "Diagnostic efficacy of optical coherence tomography in the management of preinvasive and invasive cancer of uterine cervix and vulva", Int. Journal of Gynecological Cancer 2004, 14, pages 470-474 **
		Ko T et al., "Ultrahigh resolution in vivo versus ex vivo OCT imaging and tissue preservation", Conference on Lasers and electro-optics, 2001, pages 252-253 **
		Paul M. Ripley et al., "A comparison of Artificial Intelligence techniques for spectral classification in the diagnosis of human pathologies based upon optical biopsy", Journal of Optical Society of America, 2000, pages 217-219 **
↓		Wolfgang Drexler et al., "Ultrahigh-resolution optical coherence tomography", Journal of Biomedical Optics Spie USA, 2004, pages 47-74 **
/IK/		PCT International Search Report for Application No. PCT/US2006/016677 filed April 28, 2006

Examiner /Iman Kholdebarin/ Date Considered 02/21/2007

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

Atty. Docket No.  
036140/US - 475387-00020

Serial No.  
10/765,430

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT  
(Use several sheets if necessary)**

Applicant(s)  
Guillermo J. Tearney et al.

Filing Date  
January 26, 2004

Group No.  
3737

/IK/		International Written Opinion for International Patent application No. PCT/US2006/016677 filed April 28, 2006
/IK/		Copy of Office Action dated November 13, 2006 for U.S. Patent Application No. 10/501,268
/IK/		Copy of Office Action dated November 20, 2006 for U.S. Patent Application No. 09/709,162
/IK/		PCT International Search Report and Written Opinion for Application No. PCT/US2004/023585 filed July 23, 2004

4829-8395-7761\1

Examiner /Iman Kholdebarin/ Date Considered 02/21/2007

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.